



DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO

GOVERNOR

MIKE D. McDANIEL, Ph.D.

SECRETARY

Certified Mail No.

Activity No.: PER20040045

Agency Interest No. 1409

Mr. Craig Leopard
Production Manager
Vector SBC Plant, Dow Chemical Co - Louisiana Operations
PO Box 150
Plaquemine, LA 70765-0150

RE: Part 70 Operating Permit Renewal/Modification, Vector SBC Plant, Dow Chemical Co -
Louisiana Operations, Dow Chemical Co, Plaquemine, Iberville/West Baton Rouge Parish,
Louisiana

Dear Mr. Craig Leopard:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2012, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Done this _____ day of _____, 2007.

Permit No.: 2025-V2

Sincerely,

Chuck Carr Brown, Ph.D.
Assistant Secretary
CCB: TZG
cc: EPA Region VI

ENVIRONMENTAL SERVICES
: PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
DOW CHEMICAL CO-LOUISIANA OPERATIONS / VECTOR SBC PLANT
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL & MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on Part 70 air operating permit renewal and modification for Dow Chemical Co - Louisiana Operations, P.O. Box 150, Plaquemine, LA 70765-0150 for the Vector SBC Plant. **The facility is located at 21255 Highway 1, Plaquemine, Iberville/West Baton Rouge Parish.**

The DOW Chemical Company - Louisiana Operations requested a Part 70 Air Operating Permit renewal on June 10, 2004. The application was subsequently revised on August 31, 2006. Additional information dated February 16 and March 28, 2007 was also received. There is no project associated with this permit renewal/modification. The emissions changes are due to updating the emissions calculations and inclusion of the vent gas combustion in the flare JT (EQT 329) emissions. Previously, flare combustion emissions were only based on the pilot gas to the flare. The inclusion of vent gas combustion results in the emission increases of 10.4 tpy NO_x, 46.6 tpy CO and 5.0 tpy VOC .

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM ₁₀	21.73	28.18	+6.45
SO ₂	0.94	1.60	+0.66
NO _x	3.27	13.70	+10.43
CO	2.30	48.90	+46.60
VOC	231.74	237.45	+5.71
Ozone depleting substance	3.00	0.6	-2.40

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Thursday, June 7, 2007.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed permit, and the statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov.**

Additional copies may be reviewed at the Iberville Parish Library - Headquarters located at 24605 J. Gerald Berret Blvd., Plaquemine LA 70764 and at the West Baton Rouge Library – Headquarters located at 830 North Alexander, Port Allen LA 70767.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Tingzong Guo, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3140.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at maillistrequest@ldeq.org or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 1409, Permit Number 2025-V2, and Activity Number PER20040045.

Scheduled Publication Date: Thursday, May 3, 2007.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

I. Background

The Dow Chemical Company, Louisiana Operations operates the VECTOR™ Styrenic Block Copolymer (SBC) Plant at the Louisiana Operations Complex located in Plaquemine, Louisiana. The VECTOR™ SBC Plant is a partnership between the Dow Chemical Company and ExxonMobile, operating under the name Dexco Polymers. The VECTOR™ SBC Plant currently operates under Permit No. 2025-V1, issued May 12, 2003.

II. Origin

A permit application and Emission Inventory Questionnaire dated June 10, 2004 and modified application dated August 31, 2006 were submitted by Dow Chemical Co requesting a Part 70 Operating Permit renewal. Additional information dated February 16, 2007 and March 28, 2007 was also received.

III. Description

To produce elastomers, isoprene, 1,3-butadiene, styrene, and a purified solvent are mixed, reacted, and separated. Solvent is recovered and recycled as solvent feed. Some organic vapors are recovered from the process and sent to a flare system. The elastomer product is pelletized, dried, blended, stored, packaged, and shipped.

All relief devices on storage tanks and drums and all process vents from the reaction section solvent recovery area, and raw material area which are in VOC service, are vented to a flare system with a destruction efficiency >99.5%. Tank D-711 which is a mineral oil storage tank is the only exception. This tank vents to the atmosphere and is identified as an insignificant activity. Filters or scrubbers are installed on material handling discharge blowers to reduce PM₁₀ emissions.

This renewal/Modification does not include any project, physical change, or change in the method of operation of any existing processes. Specific updates include:

- (1) Update emission calculations. Use PM₁₀ emissions to replace PM emissions. Include PM₁₀ emissions from an existing cooling tower, CT-840. Update the fugitive emissions using the correct account of specific compounds for the fugitive source, JS (Fug10). Update the emission calculations using the most recent and conservative methods.
- (2) Move the D-711 mineral oil storage tank (JY) from emission point to an identity of Insignificant Activity.
- (3) Remove the following tanks and associated fugitive components from the permit: additive tanks T-270 and T-280 and product tanks D-1354 and D-2352. These tanks were proposed in the previous minor modification, and were never built.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

(4) Include combustion emissions for vent gas to the flare JT (EQT329). Previously, flare combustion emissions were only based on the pilot gas to the flare. The inclusion of vent gas combustion results in the emission increases of 10.4 tpy NO_x, 46.6 tpy CO and 5.0 tpy VOC.

Estimated emissions in tons per year are as follows:

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
PM ₁₀	21.73	28.18	+6.45
SO ₂	0.94	1.60	+0.66
NO _x	3.27	13.70	+10.43
CO	2.30	48.9	+46.6
VOC	231.74	237.45	+5.71
Ozone depleting substance	3.00	0.6	-2.40

LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

<u>Pollutant</u>	<u>Before</u>	<u>After</u>	<u>Change</u>
1,3-Butadiene	1.90	2.90	+1.00
Chlorine	0.10	0.10	-
Ethyl benzene	<0.01	<0.01	-
Methanol	0.20	0.30	+0.10
Styrene	2.48	2.80	+0.32
Toluene	<0.01	<0.01	-
Total	4.68	6.10	+1.42

Other VOC (TPY): 228.53

The following portable engines meet the definition of non-road engines as defined in 40 CFR 89.2 and the emission requirements of 40 CFR 89.112. These engines are exempted from Title V Permit.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

Title II Non-road Engines

Portable Diesel Engines (600 HP)
Portable Air Compressors (450 HP)
Portable Generators (450 HP)
Portable HVAC Units (450 HP)

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) and Nonattainment New Source Review (NNSR) do not apply. This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51.

V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2007; and in the <local paper>, <local town>, on <date>, 200X. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

VII. Effects on Ambient Air

Dispersion Models Used: Not applicable.

VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates - tons				
		PM ₁₀	SO ₂	NO _x	CO	VOC
Equipment Opening losses		-	-	-	-	0.42
Expeller/Extruder		-	-	-	-	0.11
Sampling		-	-	-	-	0.01
Vacuum Oven Vent		-	-	-	0.048	<0.001
Vent pipe Losses		-	-	-	-	0.44

IX. Insignificant Activities

ID No.:	Description	Citation
	Analyzer Vent	LAC 33:III.501.B.5.A.9
	D-711 Mineral Oil Storage Tank	LAC 33:III.501.B.5.A.3
	Lab Hood Vent	LAC 33:III.501.B.5.A.6

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III, Chapter																	
		5 ^A	9	11	13	15	2103	2104*	2111	2113	2115	2122	2153	22	29*	51*	53*	56	59*
GRP 137	Vector SBC Plant	1	1	1	1				1	1	1	1	2		1			1	1
EQT 294	2G, T-160 Purging				1														
EQT 295	2J, T-163 Purging				1														
EQT 296	BE, T-180 Purging				1														
EQT 298	BH, H-1541 Hopper				1						2								
EQT 299	BI, H-1542 Hopper				1						2								
EQT 300	BP, Train 2 Wet Additive Makedown				1											3			
EQT 301	E8, Dry Antioxidant Makedown				1														
EQT 302	E9, Wet Additive Storage Drum						3												
EQT 303	EY, D-2445 Water Collection Drum Vent						3												
EQT 304	EZ, H-603 Hopper				1						2								
EQT 305	I9, B-2612 Blower Discharge				1						2								
EQT 306	IF, FN-2530 Blower Discharge				1						2								
EQT 307	IG, B-2610A Blower Discharge				1						2								
EQT 308	IH, B-2610B Blower Discharge				1						2								
EQT 309	II, B-640A Blower Discharge				1						2								
EQT 310	IJ, B-640B Blower Discharge				1						2								
EQT 311	IL, B-1538 Blower Discharge				1						2								
EQT 312	IX, H-601 Hopper				1						2								
EQT 313	IY, H-602 Hopper				1						2								
EQT 314	JI, H-670 Hopper				1						2								

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III, Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2111	2113	2115	2122	2153	22	29*	51*	53*	56	59*	
EQT 315	JB, B-1532 Blower Discharge				1															
EQT 316	JD, D-1520 Collection Drum Vent						3													
EQT 317	JE, B-1540A Blower Discharge				1					2										
EQT 318	JF, B-1540B Blower Discharge				1					2										
EQT 319	JG, B-1540C Blower Discharge				1					2										
EQT 320	JH, H-1543 Hopper				1					2										
EQT 321	JI, B-600A Blower Discharge				1					2										
EQT 322	JJ, B-600B Blower Discharge				1					2										
EQT 323	JK, B-600C Blower Discharge				1					2										
EQT 324	JL, B-600D Blower Discharge				1					2										
EQT 325	JM, B-600E Blower Discharge				1					2										
EQT 326	JN, B-600F Blower Discharge				1					2										
EQT 327	JO, CT-840 Cooling Tower				1										1					
EQT 328	JQ, B-675 Blower Discharge				1					2										
EQT 329	JT, FS-860 Flare			1	1	1								2						
EQT 330	C-102A Distillation Column Vent									1										
EQT 331	NA, Train 1 Wet Additive Makedown				1															
EQT 333	WH, Extruder Pellet Water Trough									2										
EQT 335	C-123A, Distillation Column Vent									1										
EQT 336	C-1410, Distillation Column Vent									1										
EQT 337	C-2450, Distillation Column Vent									1										
EQT 338	C-2410, Distillation Column Vent									1										

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																		
		5 ^A	9	11	13	15	2103	2104*	2111	2113	2115	2122	2153	22	29*	51*	53*	56	59*	
EQT 339	R-120, Reactor Vent										1									
EQT 340	R-1310, Reactor Vent										1									
EQT 341	R-1320, Reactor Vent										1									
EQT 342	T-100, Storage Tank					1										3				
EQT 343	T-110, Storage Tank					1										1				
EQT 344	T-120, Storage Tank					3										1				
EQT 345	T-160, Storage Tank					1										3				
EQT 346	T-163, Storage Tank					1										3				
EQT 347	T-170, Storage Tank					1										3				
EQT 348	T-180, Storage Tank					1										3				
EQT 350	T-220, Storage Tank					3										3				
EQT 351	T-230, Storage Tank					3										3				
EQT 352	T-240, Storage Tank					1										1				
EQT 354	T-700, Storage Tank					1										3				
EQT 356	D-101, Storage & Mixing Drum					1										3				
EQT 357	D-111, Storage & Mixing Drum					1										1				
EQT 358	D-122, Storage & Mixing Drum					3										1				
EQT 359	D-161, Storage & Mixing Drum					1										3				
EQT 360	D-162, Storage & Mixing Drum					1										3				
EQT 361	D-171, Storage & Mixing Drum					1										3				
EQT 362	D-181, Storage & Mixing Drum					1										3				
EQT 363	D-210, Storage & Mixing Drum					1										3				

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III. Chapter																	
		5 ^A	9	11	13	15	2103	2104*	2111	2113	2115	2122	2153	22	29*	51*	53*	56	59*
EQT 364	D-211, Storage & Mixing Drum						1									3			
EQT 365	D-701, Storage & Mixing Drum						1									3			
EQT 366	D-730, Storage & Mixing Drum						1									1			
EQT 367	D-1311, Storage & Mixing Drum						3									3			
EQT 368	D-1312, Storage & Mixing Drum						3									3			
EQT 369	D-1313, Storage & Mixing Drum						3									3			
EQT 370	D-1322A, Storage & Mixing Drum						3									3			
EQT 371	D-1323A, Storage & Mixing Drum						3									3			
EQT 374	D-1350, Storage & Mixing Drum						1									3			
EQT 375	D-1351, Storage & Mixing Drum						1									3			
EQT 376	D-1352, Storage & Mixing Drum						1									3			
EQT 377	D-1353, Storage & Mixing Drum						1									3			
EQT 379	D-1411, Storage & Mixing Drum						1									3			
EQT 380	D-1430, Storage & Mixing Drum						1									3			
EQT 381	D-1441, Storage & Mixing Drum						3									3			
EQT 382	D-1722, Storage & Mixing Drum						1									3			
EQT 383	D-2350, Storage & Mixing Drum						1									3			
EQT 384	D-2351, Storage & Mixing Drum						1									3			
EQT 386	D-2405, Storage & Mixing Drum						1									3			
EQT 387	D-2412, Storage & Mixing Drum						1									3			
EQT 882	C-100A/B, Purification Beds															1			
EQT 883	C-101A/B, Purification Beds															1			

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter																			
		5 [▲]	9	11	13	15	2103	2104*	2111	2113	2115	2122	2153	22	29*	51*	53*	56	59*		
EQT 884	C-110A/B, Purification Beds										1						1				
EQT 885	C-111A/B, Purification Beds										1						1				
EQT 886	C-121C/D, Purification Beds										1						1				
EQT 887	C-122A/B, Purification Beds										1						1				
EQT 888	C-1720A/B, Purification Beds										1						3				
EQT 889	C-2720, Purification Bed										1						3				
EQT 890	T-701, Storage Tank														1						
EQT 896	R-200, Storage Tank																				
EQT 897	D-1330, Storage & Mixing Drum																			3	
EQT 898	D-1340, Storage & Mixing Drum															1				3	
FUG 10	JS, Fugitive Emissions																	1		2	

* The regulations indicated above are State Only regulations.

▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 61			40 CFR 63 NESHAP						40 CFR			
		A	K	Ka	Kb	VV	NNN	RRR	FF	V	A	F	G	H	Q	EEEE	FFFF	64	68	82
GRP 137	Vector SBC Plant	1							3		1						1	2	1	1
EQT 294	2G, T-160 Purging																			
EQT 295	2J, T-163 Purging																			
EQT 296	BE, T-180 Purging																			
EQT 298	BH, H-1541 Hopper																			
EQT 299	BI, H-1542 Hopper																			
EQT 300	BP, Train 2 Wet Additive Makedown											3	3							
EQT 301	E8, Dry Antioxidant Makedown																			
EQT 302	E9, Wet Additive Storage Drum						3					3	3							
EQT 303	EY, D-2445 Water Collection Drum Vent						3					3	3							
EQT 304	EZ, H-603 Hopper																			
EQT 305	I9, B-2612 Blower Discharge																			
EQT 306	IF, FN-2530 Blower Discharge																			
EQT 307	IG, B-2610A Blower Discharge																			
EQT 308	IH, B-2610B Blower Discharge																			
EQT 309	II, B-640A Blower Discharge																			
EQT 310	IJ, B-640B Blower Discharge																			
EQT 311	IL, B-1538 Blower Discharge																			
EQT 312	IX, H-601 Hopper																			
EQT 313	IY, H-602 Hopper																			
EQT 314	JI, H-670 Hopper																			

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61		40 CFR 63 NESHAP							40 CFR				
		A	K	Ka	Kb	VV	NNN	RRR	FF	V	A	F	G	H	Q	EEEE	FFFF	64	68	82		
EQT 315	JB, B-1532 Blower Discharge																					
EQT 316	JD, D-1520 Collection Drum Vent				3							3	3									
EQT 317	JE, B-1540A Blower Discharge																					
EQT 318	JF, B-1540B Blower Discharge																					
EQT 319	JG, B-1540C Blower Discharge																					
EQT 320	JH, H-1543 Hopper																					
EQT 321	JI, B-600A Blower Discharge																					
EQT 322	JJ, B-600B Blower Discharge																					
EQT 323	JK, B-600C Blower Discharge																					
EQT 324	JL, B-600D Blower Discharge																					
EQT 325	JM, B-600E Blower Discharge																					
EQT 326	JN, B-600F Blower Discharge																					
EQT 327	JO, CT-840 Cooling Tower													3			1					
EQT 328	JQ, B-675 Blower Discharge																					
EQT 329	JT, FS-860 Flare		1																			
EQT 330	C-102A Distillation Column Vent																					
EQT 331	NA, Train 1 Wet Additive Makedown												3	3								
EQT 333	WH, Extruder Pellet Water Trough																					
EQT 335	C-123A, Distillation Column Vent																					
EQT 336	C-1410, Distillation Column Vent																					
EQT 337	C-2450, Distillation Column Vent																					
EQT 338	C-2410, Distillation Column Vent																					

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS							40 CFR 61		40 CFR 63 NESHAP							40 CFR						
		A	K	Ka	Kb	VV	NNN	RRR	FF	V	A	F	G	H	Q	EEEE	FFFF	64	68	82				
EQT 339	R-120, Reactor Vent							3				3	3											
EQT 340	R-1310, Reactor Vent							3				3	3				1							
EQT 341	R-1320, Reactor Vent							3				3	3											
EQT 342	T-100, Storage Tank				1							3	3											
EQT 343	T-110, Storage Tank				1							3	3			2	1							
EQT 344	T-120, Storage Tank				3							3	3			2	1							
EQT 345	T-160, Storage Tank				3							3	3											
EQT 346	T-163, Storage Tank				3							3	3											
EQT 347	T-170, Storage Tank				3							3	3											
EQT 348	T-180, Storage Tank				3							3	3											
EQT 350	T-220, Storage Tank				3							3	3											
EQT 351	T-230, Storage Tank				3							3	3											
EQT 352	T-240, Storage Tank				3							3	3											
EQT 354	T-700, Storage Tank				1							3	3											
EQT 356	D-101, Storage & Mixing Drum				3							3	3											
EQT 357	D-111, Storage & Mixing Drum				3							3	3				1							
EQT 358	D-122, Storage & Mixing Drum				3							3	3				1							
EQT 359	D-161, Storage & Mixing Drum				3							3	3											
EQT 360	D-162, Storage & Mixing Drum				3							3	3											
EQT 361	D-171, Storage & Mixing Drum				3							3	3											
EQT 362	D-181, Storage & Mixing Drum				3							3	3											
EQT 363	D-210, Storage & Mixing Drum				3							3	3											

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements		40 CFR 60 NSPS										40 CFR 61					40 CFR 63 NESHAP							40 CFR														
		A	K	Ka	Kb	VV	NNN	RRR	FF	V	A	F	G	H	Q	EEEE	FFFF	64	68	82																		
ID No.:	Description																																					
EQT 364	D-211, Storage & Mixing Drum				3																																	
EQT 365	D-701, Storage & Mixing Drum				1																																	
EQT 366	D-730, Storage & Mixing Drum				1																																	
EQT 367	D-1311, Storage & Mixing Drum				3																																	
EQT 368	D-1312, Storage & Mixing Drum				3																																	
EQT 369	D-1313, Storage & Mixing Drum				3																																	
EQT 370	D-1322A, Storage & Mixing Drum				3																																	
EQT 371	D-1323A, Storage & Mixing Drum				3																																	
EQT 374	D-1350, Storage & Mixing Drum				1																																	
EQT 375	D-1351, Storage & Mixing Drum				1																																	
EQT 376	D-1352, Storage & Mixing Drum				1																																	
EQT 377	D-1353, Storage & Mixing Drum				1																																	
EQT 379	D-1411, Storage & Mixing Drum				3																																	
EQT 380	D-1430, Storage & Mixing Drum				1																																	
EQT 381	D-1441, Storage & Mixing Drum				3																																	
EQT 382	D-1722, Storage & Mixing Drum				3																																	
EQT 383	D-2350, Storage & Mixing Drum				1																																	
EQT 384	D-2351, Storage & Mixing Drum				1																																	
EQT 386	D-2405, Storage & Mixing Drum				3																																	
EQT 387	D-2412, Storage & Mixing Drum				3																																	
EQT 882	C-100A/B, Purification Beds																																					
EQT 883	C-101A/B, Purification Beds																																					

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	40 CFR 60 NSPS						40 CFR 63 NESHAP						40 CFR							
		A	K	Ka	Kb	VV	NNN	RRR	FF	V	A	F	G	H	Q	EEEE	FFFF	64	68	82	
EQT 884	C-110A/B, Purification Beds											3	3				1				
EQT 885	C-111A/B, Purification Beds											3	3				1				
EQT 886	C-121C/D, Purification Beds											3	3				1				
EQT 887	C-122A/B, Purification Beds											3	3				1				
EQT 888	C-1720A/B, Purification Beds																				
EQT 889	C-2720, Purification Bed																				
EQT 890	T-701, Storage Tank				1							3	3								
EQT 896	R-200, Storage Tank																				
EQT 897	D-1330, Storage & Mixing Drum				3							3	3								
EQT 898	D-1340, Storage & Mixing Drum				3							3	3								
FUG 10	JS, Fugitive Emissions					1								1		2	1				1

KEY TO MATRIX

- 1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.
- 2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.
- 3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank - The regulations clearly do not apply to this type of emission source.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
GRP 137 Vector SBC Plant	Control of Emissions of Nitrogen Oxides (NOx) LAC 33:III. Chapter 22. 40 CFR 61, Subpart FF - National Emission Standard for Benzene Waste Operation 40 CFR 61.342	EXEMPT Per LAC 33:III. 2201.C.7, flares are exempted from the provision 22. EQT 329 (JT, Flare FS-860) is the only combustion equipment in the plant. DOES NOT APPLY Facility handles less than 1.1 tons per year or 10 Mg per year. Controls not required. Subject to the recordkeeping and reporting requirements only.
EQT 329	Control of Emissions of Nitrogen Oxides (NOx) LAC 33:III, Chapter 22.	EXEMPT Per LAC 33:III. 2201.C.7 flares are exempted from the provision 22. EQT 329 (JT, Flare FS-860) is the only combustion equipment in the plant.
EQT 335, 337	NSPS, Subpart NNN, Standards of Performance for VOC Emissions From SOCM I Distillation Operations 40 CFR 60.660 40 CFR 63, Subpart F and G HON	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 60.667. DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 338	NSPS, Subpart NNN, Standards of Performance for VOC Emissions From SOCM I Distillation Operations 40 CFR 60.660 40 CFR 63, Subpart F and G HON	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 60.667. DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 330, 882, 883, 336, 888, 889	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III. Chapter 51, Subpart A State only	DOES NOT APPLY The vessels are not used to store air toxic.
EQT 339-341	NSPS, Subpart RRR 40 CFR 60.700	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 60.707.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 339-341 (Continued)	40 CFR 63, Subpart F and G HON	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 884-887	40 CFR 63, Subpart F and G HON	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 342, 354, 890, 365, 374-377, 383, 384	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III.Chapter 51, Subpart A State only	DOES NOT APPLY Tanks and drums are not used to store air toxics.
EQT 343, 366	40 CFR 63, Subpart F and G HON	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 357, 352	40 CFR 63, Subpart F and G HON	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 344, 358	NSPS, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels 40 CFR 60.110b(b) 40 CFR 63, Subpart F and G HON	DOES NOT APPLY Tank capacity is less than 19,800 gallons (75 m ³). DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
	Storage of VOC LAC 33:III.2103.B	EXEMPT Vapor pressure is less than 1.5 psia.
	NSPS, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels 40 CFR 60.110b(b) 40 CFR 63, Subpart F and G HON	DOES NOT APPLY Tank capacity is less than 19,800 gallons (75 m ³). DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 350, 351	Storage of VOC LAC 33:III.2103.B	EXEMPT Vapor pressure is less than 1.5 psia.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 350, 351 (Continued)	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III.Chapter 51, Subpart A State only	DOES NOT APPLY Tanks and drums are not used to store air toxics.
EQT 356, 359-364, 379, 380, 382, 386, 387, 345-348, 897, 898	NSPS, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels 40 CFR 60.110b(b) 40 CFR 63, Subpart F and G HON	DOES NOT APPLY Tank capacity is less than 19,800 gallons (75 m ³). DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1. DOES NOT APPLY Tanks and drums are not used to store air toxics.
EQT 367-371, EQT 381	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III.Chapter 51 NSPS, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels 40 CFR 60.110b(b) 40 CFR 63, Subpart F and G HON Storage of VOC LAC 33:III.2103.B Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III.Chapter 51	DOES NOT APPLY Tank capacity is less than 19,800 gallons (75 m ³). DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1. DOES NOT APPLY Each tank capacity is less than 250 gal. DOES NOT APPLY Tanks and drums are not used to store air toxics.
EQT 302, 303, 316	NSPS, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels 40 CFR 60.110b(b) 40 CFR 63, Subpart F and G HON Storage of VOC LAC 33:III.2103.B	DOES NOT APPLY Tank capacity is less than 19,800 gallons (75 m ³). DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1. DOES NOT APPLY The drums are water collection drum and not for VOC storage.

**LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
VECTOR SBC PLANT
THE DOW CHEMICAL COMPANY, AI NO. 1409
PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA**

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
EQT 302, 303, 316 (Continued)	NSPS, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels 40 CFR 60.110b(b) 40 CFR 63, Subpart F and G HON	DOES NOT APPLY Tank capacity is less than 19,800 gallons (75 m ³). DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 343, 344	40 CFR 63, Subpart EEEE - National Emission Standard for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	EXEMPT These tanks are subject to MON (40 CFR 63, Subpart FFFF) and are therefore excluded from 40 CFR 63, Subpart EEEE, per 40 CFR 63.2338(c)(1).
EQT 331, 300	Comprehensive Toxic Air Pollutant Emission Control Program LAC 33:III.Chapter 51, Subpart A State only 40 CFR 63, Subpart F and G HON	DOES NOT APPLY Tanks and drums are not used to store air toxics.
EQT 298, 299, 328 304-315, 317-326	Waste Gas Disposal LAC 33:III.2115.H.1.d	DOES NOT APPLY Plant does not make any chemical listed in 40 CFR 63, Subpart F, Table 1.
EQT 327	40 CFR 63, Subpart Q - National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers 40 CFR 63.400	EXEMPT Vent streams contain less than 3000 ppmv VOC.
EQT 333	Waste Gas Disposal LAC 33:III.2115.H.1.d	DOES NOT APPLY Facility does not use chromium in any cooling towers. EXEMPT Vent streams contain less than 3000 ppmv VOC.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
 VECTOR SBC PLANT
 THE DOW CHEMICAL COMPANY, AI NO. 1409
 PLAQUEMINE, IBERVILLE/WEST BATON ROUGE PARISH, LOUISIANA

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

ID No:	Requirement	Notes
FUG 10	40 CFR 63, Subpart EEEE - National Emission Standard for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	<p>EXEMPT</p> <p>The transfer rack under FUG 10 meets the definition given in 40 CFR 63, Subpart EEEE because this rack unloads organic liquids (butadiene and styrene). However, this transfer rack only unloads the organic liquid. And no loading takes place for this transfer rack. There are no fugitive requirements per 40 CFR 63.2346(c). There is no control, notification, record keeping or reporting requirements for this transfer rack that unloads organic liquids only.</p>

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

SPECIFIC CONDITIONS

Permittee shall comply with a streamlined equipment leaks monitoring program. Compliance with the streamlined program in accordance with this specific condition shall serve to comply with each of the applicable fugitive emission monitoring programs being streamlined, as indicated in the following table. Noncompliance with the streamlined program in accordance with this specific condition may subject the permittee to enforcement action for one or more of the applicable fugitive emissions programs.

1. Permittee shall apply the streamlined program to the combined universe of components subject to any of the programs being streamlined. Any component type which does not require periodic monitoring under the overall most stringent program (HON) shall be monitored as required by the most stringent requirements of any other program being streamlined and will not be exempted. The streamlined program will include any exemptions based on size of component available in any of the programs being streamlined.
2. Permittee shall use leak definitions and monitoring frequency based on the overall most stringent program. Percent leaker performance shall be calculated using the provisions of the overall most stringent program. Annual monitoring shall be defined as once every four quarters. Some allowance may be made in the first year of the streamlined program in order to allow for transition from existing monitoring schedules.
3. Permittee shall comply with recordkeeping and reporting requirements of the overall most stringent program. Semiannual reports shall be submitted by October 30 and April 30, to cover the periods October 1 through March 31 and April 1 through September 30, respectively. The semiannual reports shall include any monitoring performed within the reporting period.

UNIT OR PLANT SITE	PROGRAMS BEING STREAMLINED	STREAM APPLICABILITY	OVERALL MOST STRINGENT PROGRAM
VECTOR™ SBC	40 CFR 63, Subpart H-HON	5% VOHAP	40 CFR 63, Subpart H-HON
	40 CFR 63, Subpart UU	5% VOHAP	
	LA NON HON MACT	5% VOHAP	
	LAC 33:III.2122	10% VOHAP	
	NSPS, Subpart VV	10% VOC	
	RCRA, BB	10% VOC	

40 CFR PART 70 GENERAL CONDITIONS

- A. The term of this permit shall be five (5) years from date of issuance. An application for a renewal of this 40 CFR Part 70 permit shall be submitted to the administrative authority no later than six months prior to the permit expiration date. Should a complete permit application not be submitted six months prior to the permit expiration date, a facility's right to operate is terminated pursuant to 40 CFR Section 70.7(c)(ii). Operation may continue under the conditions of this permit during the period of the review of the application for renewal. [LAC 33:III.507.E.1, E.3, E.4, reference 40 CFR 70.6(a)(2)]
- B. The conditions of this permit are severable; and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. [Reference 40 CFR 70.6(a)(5)]
- C. Permittee shall comply with all conditions of the 40 CFR Part 70 permit. Any permit noncompliance constitutes a violation of the Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [LAC 33:III.507.B.2, reference 40 CFR 70.6(a)(6)(i) & (iii)]
- D. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Reference 40 CFR 70.6(a)(6)(ii)]
- E. This permit does not convey any property rights of any sort, or an exclusive privilege. [Reference 40 CFR 70.6(a)(6)(iv)]
- F. The permittee shall furnish to the permitting authority, within a reasonable time, any information that the permitting authority may request in writing to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the permitting authority copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality. A claim of confidentiality does not relieve the permittee of the requirement to provide the information. [LAC 33:III.507.B.2, 517.F, reference 40 CFR 70.6(a)(6)(v)]
- G. Permittee shall pay fees in accordance with LAC 33:III.Chapter 2 and 40 CFR Section 70.6(a)(7). [LAC 33:III.501.C.2, reference 40 CFR 70.6(a)(7)]
- H. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the permitting authority or authorized representative to perform the following:
1. enter upon the permittee's premises where a 40 CFR Part 70 source is located or emission-related activity is conducted, or where records must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 2. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(i)];
 3. inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iii)]; and

40 CFR PART 70 GENERAL CONDITIONS

4. as authorized by the Clean Air Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [LAC 33:III.507.H.2, reference 40 CFR 70.6(c)(2)(iv)]
- I. All required monitoring data and supporting information shall be kept available for inspection at the facility or alternate location approved by the agency for a period of at least five (5) years from the date of the monitoring sample, measurement, report, or application. Supporting information includes calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and all reports required by the permit.
[Reference 40 CFR 70.6(a)(3)(ii)(B)]
- J. Records of required monitoring shall include the following:
1. the date, place as defined in the permit, and time of sampling or measurements;
 2. the date(s) analyses were performed;
 3. the company or entity that performed the analyses;
 4. the analytical techniques or methods used;
 5. the results of such analyses; and
 6. the operating conditions as existing at the time of sampling or measurement.
- [Reference 40 CFR 70.6(a)(3)(ii)(A)]
- K. Permittee shall submit at least semiannually, reports of any required monitoring, clearly identifying all instances of deviations from permitted monitoring requirements, certified by a responsible company official. For previously reported deviations, in lieu of attaching the individual deviation reports, the semiannual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The semiannual reports shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding period encompassing July through December and September 30 for the preceding period encompassing January through June. Any quarterly deviation report required to be submitted by March 31 or September 30 in accordance with Part 70 General Condition R may be consolidated with the semi-annual reports required by this general condition as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [LAC 33:III.507.H, reference 40 CFR 70.6(a)(3)(iii)(A)]
- L. The permittee shall submit at least semiannual reports on the status of compliance pursuant to 40 CFR Section 70.5 (c) (8) and a progress report on any applicable schedule of compliance pursuant to 40 CFR Section 70.6 (c) (4). [LAC 33:III.507.H.1, reference 40 CFR 70.6(c)(4)]
- M. Compliance certifications per LAC 33:III.507.H.5 shall be submitted to the Administrator as well as the permitting authority. For previously reported compliance deviations, in lieu of attaching the individual deviation reports, the annual report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The compliance certifications shall be submitted to the Office of Environmental Compliance, Enforcement Division by March 31 for the preceding calendar year. [LAC 33:III.507.H.5, reference 40 CFR 70.6(c)(5)(iv)]
- N. If the permittee seeks to reserve a claim of an affirmative defense as provided in LAC 33:III.507.J.2, the permittee shall, in addition to any emergency or upset provisions in any applicable regulation, notify the permitting authority within 2 working days of the time when emission limitations were exceeded due to the occurrence of an upset. In the event of an upset, as defined under LAC 33:III.507.J, which results in excess emissions, the permittee shall demonstrate through properly signed, contemporaneous operating logs, or other relevant evidence that: 1) an

40 CFR PART 70 GENERAL CONDITIONS

emergency occurred and the cause was identified; 2) the permitted facility was being operated properly at the time; and 3) during the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standard or requirement of the permit. [LAC 33:III.507.J.2, reference 40 CFR 70.6(g)(3)(iv) & (i-iii)]

- O. Permittee shall maintain emissions at a level less than or equal to that provided for under the allowances that the 40 CFR Part 70 source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Clean Air Act. [Reference 40 CFR 70.6(a)(4)]
- P. Any permit issued pursuant to 40 CFR Part 70 may be subject to reopening prior to the expiration of the permit for any of the conditions specified in 40 CFR Section 70.7(f) or LAC 33:III.529. [LAC 33:III.529.A-B, reference 40 CFR 70.7(f)]
- Q. Permittee may request an administrative amendment to the permit to incorporate test results from compliance testing if the following criteria are met:
1. the changes are a result of tests performed upon start-up of newly constructed, installed, or modified equipment or operations;
 2. increases in permitted emissions will not exceed five tons per year for any regulated pollutant;
 3. increases in permitted emissions of Louisiana toxic air pollutants or of federal hazardous air pollutants would not constitute a modification under LAC 33:III. Chapter 51 or under Section 112 (g) of the Clean Air Act;
 4. changes in emissions would not require new source review for prevention of significant deterioration or nonattainment and would not trigger the applicability of any federally applicable requirement;
 5. changes in emissions would not qualify as a significant modification; and
 6. the request is submitted no later than 12 months after commencing operation. [LAC 33:III.523.A, reference 40 CFR 70.7(d)]
- R. Permittee shall submit prompt reports of all permit deviations as specified below to the Office of Environmental Compliance, Enforcement Division. All such reports shall be certified by a responsible official in accordance with 40 CFR 70.5(d).
1. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
 2. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.

40 CFR PART 70 GENERAL CONDITIONS

3. A written report shall be submitted quarterly to address all permit deviations not included in paragraphs 1 or 2 above. Unless required by an applicable reporting requirement, a written report is not required during periods in which there is no deviation. The quarterly deviation reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by Part 70 General Condition K as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. For previously reported permit deviations, in lieu of attaching the individual deviation reports, the quarterly report may clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any permit deviations occurring during the corresponding specified calendar quarter:

- a. Report by June 30 to cover January through March
- b. Report by September 30 to cover April through June
- c. Report by December 31 to cover July through September
- d. Report by March 31 to cover October through December

4. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided such reports are certified in accordance with 40 CFR 70.5(d) and contain all information relevant to the permit deviation. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107. [Reference 40 CFR 70.6(a)(3)(iii)(B)]

- S. Permittee shall continue to comply with applicable requirements on a timely basis, and will meet on a timely basis applicable requirements that become effective during the permit term. [Reference 40 CFR 70.5(c)(8)(iii)]

- T. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

1. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156;
2. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158;
3. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161;
4. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR 82.166. ("MVAC-like appliance" as defined at 40 CFR 82.152);
5. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156; and
6. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166. [Reference 40 CFR 82, Subpart F]

40 CFR PART 70 GENERAL CONDITIONS

- U. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant. [Reference 40 CFR 82, Subpart B]

- V. Data availability for continuous monitoring or monitoring to collect data at specific intervals: Except for monitoring malfunctions, associated repairs, and required quality assurance or control activities (including calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the emissions unit is operating. For purposes of reporting monitoring deviations under Part 70 General Conditions K and R, and unless otherwise provided for in the Specific Requirements (or Table 3) of this permit, the minimum degree of data availability shall be at least 90% (based on a monthly average) of the operating time of the emissions unit or activity being monitored. This condition does not apply to Leak Detection and Repair (LDAR) programs for fugitive emissions (e.g., 40 CFR 60 Subpart VV, 40 CFR 63 Subpart H).

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

- I. This permit is issued on the basis of the emissions reported in the application for approval of emissions and in no way guarantees that the design scheme presented will be capable of controlling the emissions to the type and quantities stated. Failure to install, properly operate and/or maintain all proposed control measures and/or equipment as specified in the application and supplemental information shall be considered a violation of the permit and LAC 33:III.501. If the emissions are determined to be greater than those allowed by the permit (e.g. during the shakedown period for new or modified equipment) or if proposed control measures and/or equipment are not installed or do not perform according to design efficiency, an application to modify the permit must be submitted. All terms and conditions of this permit shall remain in effect unless and until revised by the permitting authority.
- II. The permittee is subject to all applicable provisions of the Louisiana Air Quality Regulations. Violation of the terms and conditions of the permit constitutes a violation of these regulations.
- III. The Emission Rates for Criteria Pollutants, Emission Rates for TAP/HAP & Other Pollutants, and Specific Requirements sections or, where included, Emission Inventory Questionnaire sheets establish the emission limitations and are a part of the permit. Any operating limitations are noted in the Specific Requirements or, where included, Tables 2 and 3 of the permit. The permit is based on the permit application and Emission Inventory Questionnaire (EIQ) dated June 10, 2004, a revised application and EIQ dated August 31, 2006, and additional information dated and February 16, 2007 and March 28, 2007.
- IV. This permit shall become invalid, for the sources not constructed, if:
- A. Construction is not commenced, or binding agreements or contractual obligations to undertake a program of construction of the project are not entered into, within two (2) years (18 months for PSD permits) after issuance of this permit, or;
 - B. If construction is discontinued for a period of two (2) years (18 months for PSD permits) or more.
- The administrative authority may extend this time period upon a satisfactory showing that an extension is justified.
- This provision does not apply to the time period between construction of the approved phases of a phased construction project. However, each phase must commence construction within two (2) years (18 months for PSD permits) of its projected and approved commencement date.
- V. The permittee shall submit semiannual reports of progress outlining the status of construction, noting any design changes, modifications or alterations in the construction schedule which have or may have an effect on the emission rates or ambient air quality levels. These reports shall continue to be submitted until such time as construction is certified as being complete. Furthermore, for any significant change in the design, prior approval shall be obtained from the Office of Environmental Services, Air Permits Division.
- VI. The permittee shall notify the Department of Environmental Quality, Office of Environmental Services, Air Permits Division within ten (10) calendar days from the date that construction is certified as complete and the estimated date of start-up of operation. The appropriate Regional Office shall also be so notified within the same time frame.
- VII. Any emissions testing performed for purposes of demonstrating compliance with the limitations set forth in paragraph III shall be conducted in accordance with the methods described in the Specific Conditions and, where included, Tables 1, 2, 3, 4, and 5 of this permit. Any deviation

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

from or modification of the methods used for testing shall have prior approval from the Office of Environmental Assessment, Air Quality Assessment Division.

- VIII. The emission testing described in paragraph VII above, or established in the specific conditions of this permit, shall be conducted within sixty (60) days after achieving normal production rate or after the end of the shakedown period, but in no event later than 180 days after initial start-up (or restart-up after modification). The Office of Environmental Assessment, Air Quality Assessment Division shall be notified at least (30) days prior to testing and shall be given the opportunity to conduct a pretest meeting and observe the emission testing. The test results shall be submitted to the Air Quality Assessment Division within sixty (60) days after the complete testing. As required by LAC 33:III.913, the permittee shall provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
- IX. The permittee shall, within 180 days after start-up and shakedown of each project or unit, report to the Office of Environmental Compliance, Enforcement Division any significant difference in operating emission rates as compared to those limitations specified in paragraph III. This report shall also include, but not be limited to, malfunctions and upsets. A permit modification shall be submitted, if necessary, as required in Condition I.
- X. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of at least five (5) years.
- XI. If for any reason the permittee does not comply with, or will not be able to comply with, the emission limitations specified in this permit, the permittee shall provide the Office of Environmental Compliance, Enforcement Division with a written report as specified below.
- A. A written report shall be submitted within 7 days of any emission in excess of permit requirements by an amount greater than the Reportable Quantity established for that pollutant in LAC 33.I.Chapter 39.
- B. A written report shall be submitted within 7 days of the initial occurrence of any emission in excess of permit requirements, regardless of the amount, where such emission occurs over a period of seven days or longer.
- C. A written report shall be submitted quarterly to address all emission limitation exceedances not included in paragraphs A or B above. The schedule for submittal of quarterly reports shall be no later than the dates specified below for any emission limitation exceedances occurring during the corresponding specified calendar quarter:
1. Report by June 30 to cover January through March
 2. Report by September 30 to cover April through June
 3. Report by December 31 to cover July through September
 4. Report by March 31 to cover October through December
- D. Each report submitted in accordance with this condition shall contain the following information:
1. Description of noncomplying emission(s);
 2. Cause of noncompliance;

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

3. Anticipated time the noncompliance is expected to continue, or if corrected, the duration of the period of noncompliance;
 4. Steps taken by the permittee to reduce and eliminate the noncomplying emissions; and
 5. Steps taken by the permittee to prevent recurrences of the noncomplying emissions.
- E. Any written report submitted in advance of the timeframes specified above, in accordance with an applicable regulation, may serve to meet the reporting requirements of this condition provided all information specified above is included. For Part 70 sources, reports submitted in accordance with Part 70 General Condition R shall serve to meet the requirements of this condition provided all specified information is included. Reporting under this condition does not relieve the permittee from the reporting requirements of any applicable regulation, including LAC 33.I.Chapter 39, LAC 33.III.Chapter 9, and LAC 33.III.5107.
- XII. Permittee shall allow the authorized officers and employees of the Department of Environmental Quality, at all reasonable times and upon presentation of identification, to:
- A. Enter upon the permittee's premises where regulated facilities are located, regulated activities are conducted or where records required under this permit are kept;
 - B. Have access to and copy any records that are required to be kept under the terms and conditions of this permit, the Louisiana Air Quality Regulations, or the Act;
 - C. Inspect any facilities, equipment (including monitoring methods and an operation and maintenance inspection), or operations regulated under this permit; and
 - D. Sample or monitor, for the purpose of assuring compliance with this permit or as otherwise authorized by the Act or regulations adopted thereunder, any substances or parameters at any location.
- XIII. If samples are taken under Section XII.D. above, the officer or employee obtaining such samples shall give the owner, operator or agent in charge a receipt describing the sample obtained. If requested prior to leaving the premises, a portion of each sample equal in volume or weight to the portion retained shall be given to the owner, operator or agent in charge. If an analysis is made of such samples, a copy of the analysis shall be furnished promptly to the owner, operator or agency in charge.
- XIV. The permittee shall allow authorized officers and employees of the Department of Environmental Quality, upon presentation of identification, to enter upon the permittee's premises to investigate potential or alleged violations of the Act or the rules and regulations adopted thereunder. In such investigations, the permittee shall be notified at the time entrance is requested of the nature of the suspected violation. Inspections under this subsection shall be limited to the aspects of alleged violations. However, this shall not in any way preclude prosecution of all violations found.
- XV. The permittee shall comply with the reporting requirements specified under LAC 33:III.919 as well as notification requirements specified under LAC 33:III.927.
- XVI. In the event of any change in ownership of the source described in this permit, the permittee and the succeeding owner shall notify the Office of Environmental Services, Air Permits Division, within ninety (90) days after the event, to amend this permit.

**LOUISIANA AIR EMISSION PERMIT
GENERAL CONDITIONS**

XVII. Very small emissions to the air resulting from routine operations, that are predictable, expected, periodic, and quantifiable and that are submitted by the permitted facility and approved by the Air Permits Division are considered authorized discharges. Approved activities are noted in the General Condition XVII Activities List of this permit. To be approved as an authorized discharge, these very small releases must:

1. Generally be less than 5 TPY
2. Be less than the minimum emission rate (MER)
3. Be scheduled daily, weekly, monthly, etc., or
4. Be necessary prior to plant startup or after shutdown [line or compressor pressuring/depressuring for example]

These releases are not included in the permit totals because they are small and will have an insignificant impact on air quality. This general condition does not authorize the maintenance of a nuisance, or a danger to public health and safety. The permitted facility must comply with all applicable requirements, including release reporting under LAC 33:I.3901.

XVIII. Provisions of this permit may be appealed in writing pursuant to La. R.S. 30:2024(A) within 30 days from receipt of the permit. Only those provisions specifically appealed will be suspended by a request for hearing, unless the secretary or the assistant secretary elects to suspend other provisions as well. Construction cannot proceed except as specifically approved by the secretary or assistant secretary. A request for hearing must be sent to the following:

Attention: Office of the Secretary, Legal Services Division
La. Dept. of Environmental Quality
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302

XIX. Certain Part 70 general conditions may duplicate or conflict with state general conditions. To the extent that any Part 70 conditions conflict with state general conditions, then the Part 70 general conditions control. To the extent that any Part 70 general conditions duplicate any state general conditions, then such state and Part 70 provisions will be enforced as if there is only one condition rather than two conditions.

General Information

AI ID: 1409 Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

ID	Name	User Group	Start Date
RAL-020	Regulated Asbestos Landfill	Asbestos	12-15-2006
1280-00008	Dow Chemical Co - Louisiana Division	CDS Number	05-27-1993
1280-0008	Dow Chemical Co - Louisiana Division	Emission Inventory	03-03-2004
38-1285128	Federal Tax ID	Federal Tax ID	11-21-1999
LAD008187080	Dow Chemical Co LA Operations	Hazardous Waste Notification	01-29-1986
PMT/CA	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
00290	Dow Chemical	Inactive & Abandoned Sites	09-01-1986
LAD008187080	Dow Chemical USA	Inactive & Abandoned Sites	06-09-1981
LA0003301	LPDES #	LPDES Permit #	05-27-1993
LAR05N128	LPDES #	LPDES Permit #	10-24-2001
LAR10B702	LPDES #	LPDES Permit #	03-24-2003
LAR10C623	LPDES #	LPDES Permit #	10-28-2004
LAR10D056	LPDES #	LPDES Permit #	06-13-2005
LAR10D101	LPDES #	LPDES Permit #	08-23-2005
LAR10D431	LPDES #	LPDES Permit #	04-01-2006
GP1596	LWDPS #	LWDPS Permit #	11-21-1999
WP1561	LWDPS #	LWDPS Permit #	06-25-2003
WP1654	LWDPS #	LWDPS Permit #	06-25-2003
LA-2002-L02	Priority 1 Emergency Site	Priority 1 Emergency Site	07-18-2006
2002	Radioactive Material License	Radiation License Number	03-12-2001
GPDT-047-0107	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
1280A0002	Site ID #	Solid Waste Facility No.	04-30-2001
11649	Stage II Vapor Recovery	Stage II Vapor Recovery	08-19-2002
126305	Dow Chemical USA	TEMPO Merge	05-22-2001
19794	Dow Chemical Co - Vinyl II Cooling Tower	TEMPO Merge	12-19-2005
38771	Dow Chemical USA - LA Division New Tank Farm	TEMPO Merge	07-01-2001
41283	Dow Chemical Co - LA Operations	TEMPO Merge	05-22-2001
44749	Dow Chemical Co	TEMPO Merge	05-22-2001
44946	Dow Lighthouse Rd	TEMPO Merge	08-25-2002
52295	Dow Chemical USA	TEMPO Merge	05-22-2001
1280-0008	Dow Chemical USA - Coal Gasification	TEMPO Merge	05-22-2001
70765THDWCHIGHW	Toxic Emissions Data Inventory #	Toxic Emissions Data Inventory #	01-01-1991
	TRI #	Toxic Release Inventory	07-08-2004

Also Known As:

General Information

AJ ID: 1409 Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

Also Known As: ID 24-011629 Name UST Facility ID # 10-11-2002 User Group Underground Storage Tanks Start Date 10-11-2002

Physical Location: 21255 Hwy 1 (a portion of) Plaquemine, LA 70765 Main Phone: 2253536148

Mailing Address: PO Box 150 Plaquemine, LA 707650150

Name	Mailing Address	Phone (Type)	Relationship
Catherine Bilello	PO Box 150 Plaquemine, LA 707650150	2253536595 (WP)	Responsible Official for
Robert Brandt	PO Box 150 Plaquemine, LA 707650150	2253538938 (WP)	Responsible Official for
Dan Bucholtz	PO Box 150 Plaquemine, LA 707650150	2253535802 (WP)	Responsible Official for
Mike Christal	PO Box 150 Plaquemine, LA 707650150	2253531660 (WP)	Responsible Official for
Delia Contreras	PO Box 150 Plaquemine, LA 707650150	2253536192 (WP)	Responsible Official for
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Solid Waste Billing Party for
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Accident Prevention Billing Party for
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Stage II Vapor Recovery Billing Party for
Dennis Davis	PO Box 150 Plaquemine, LA 707650150	2253536128 (WP)	Water Billing Party for
Bart Dolezal	PO Box 150 Plaquemine, LA 707650150	2253536039 (WP)	Responsible Official for
Richard Durfham	PO Box 150 Bldg 3502 E Plaquemine, LA 707650150		Underground Storage Tank Contact for
Tim Gunn	PO Box 150 Plaquemine, LA 707650150	2253531514 (WP)	Responsible Official for
Dan Jason	PO Box 150 Plaquemine, LA 707650150	2253631512 (WP)	Responsible Official for
Gretchen LeBlanc	PO Box 150 Plaquemine, LA 707650150	2253531642 (WP)	Responsible Official for
Craig Leopard	PO Box 150 Plaquemine, LA 707650150	2253535871 (WP)	Responsible Official for
Donald Lyle	PO Box 150 Plaquemine, LA 707650150	2253536472 (WP)	Responsible Official for
Vic McMurray	PO Box 150 Plaquemine, LA 707650150	2253536148 (WP)	Responsible Official for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253536146 (WP)	Radiation Safety Officer for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253538001 (WF)	Radiation Safety Officer for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253226146 (DP)	Radiation Safety Officer for
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253538001 (WF)	Radiation Contact For
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253226146 (DP)	Radiation Contact For
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	BRABALAI@DOW	Radiation Contact For
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	2253536146 (WP)	Radiation Contact For
Brad Rabalais	21255 Hwy 1 Bldg 3502 Plaquemine, LA 70764	BRABALAI@DOW	Radiation Safety Officer for
Chris Reed	PO Box 150 Plaquemine, LA 707650150	2253538948 (WP)	Responsible Official for
Gill Walker	PO Box 150 Plaquemine, LA 707650150	2253535873 (WP)	Responsible Official for
Susan Williams	PO Box 150 Plaquemine, LA 707650150	2253535317 (WP)	Responsible Official for
David Wilson	PO Box 150 Plaquemine, LA 707650150	2253536583 (WP)	Responsible Official for

General Information

AI ID: 1409 Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

Related Organizations:	Name	Address	Phone (Type)	Relationship
	Dow Chemical Co	PO Box 150 Bldg 3502 E Plaquemine, LA 707650150		Owns
	Dow Chemical Co	PO Box 150 Bldg 3502 E Plaquemine, LA 707650150		UST Billing Party for
	Dow Chemical Co	PO Box 150 Bldg 3502 E Plaquemine, LA 707650150		Radiation License Billing Party for
	Dow Chemical Co	PO Box 150 Bldg 3502 E Plaquemine, LA 707650150		Air Billing Party for
	Dow Chemical Co	PO Box 150 Bldg 3502 E Plaquemine, LA 707650150		Radiation Registration Billing Party for
	JE Merit Constructors Inc	4949 Essen Ln Baton Rouge, LA 70898	2257685548 (WP)	Provides environmental services for
	National Maintenance Corp	2865 Mason St Baton Rouge, LA 70865		Provides environmental services for
	Petrin Corp	1405 Commerical Dr Port Allen, LA 70767		Provides environmental services for

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Mr. David Ferrand, Environmental Assistance Division, at (225) 219-3247 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT292	2E, BU-160 Bag Unloading			15 lb/hr		8760 hr/yr (All Year)
EQT293	2F, BU-163 Bag Unloading			12 lb/hr		8760 hr/yr (All Year)
EQT294	2G, T-160 Purging		27 lb/hr	15 lb/hr		8760 hr/yr (All Year)
EQT295	2J, T-163 Purging		29 lb/hr	12 lb/hr		8760 hr/yr (All Year)
EQT296	BE, T-180 Purging		51 lb/hr	27 lb/hr		8760 hr/yr (All Year)
EQT297	BG, BU-180 Bag Unloading			27 lb/hr		8760 hr/yr (All Year)
EQT298	BH, H-1541 Hopper		425 ft ³ /min	10 ft ³ /min		8760 hr/yr (All Year)
EQT299	BI, H-1542 Hopper		425 ft ³ /min	10 ft ³ /min		8760 hr/yr (All Year)
EQT300	BP, Train 2 Wet Additive Makedown		117787 lb/yr	98156 lb/yr		8760 hr/yr (All Year)
EQT301	E8, Dry Antioxidant Makedown		647405 lb/yr	539504 lb/yr		8760 hr/yr (All Year)
EQT302	E9, Wet Additive Storage Drum	130 gallons		2.63 MM gallons/yr		8760 hr/yr (All Year)
EQT303	EY, D-2445 Water Collection Drum Vent	21400 gallons		60 ft ³ /min		8760 hr/yr (All Year)
EQT304	EZ, H-603 Hopper		425 ft ³ /min	10 ft ³ /min		8760 hr/yr (All Year)
EQT305	I9, B-2612 Blower Discharge		2400 ft ³ /min	1600 ft ³ /min		8760 hr/yr (All Year)
EQT306	IF, FN-2530 Blower Discharge		60000 ft ³ /min	40000 ft ³ /min		8760 hr/yr (All Year)
EQT307	IG, B-2610A Blower Discharge		838 ft ³ /min	670 ft ³ /min		8760 hr/yr (All Year)
EQT308	IH, B-2610B Blower Discharge		838 ft ³ /min	670 ft ³ /min		8760 hr/yr (All Year)
EQT309	II, B-640A Blower Discharge		1800 ft ³ /min	1200 ft ³ /min		8760 hr/yr (All Year)
EQT310	IJ, B-640B Blower Discharge		1800 ft ³ /min	1200 ft ³ /min		8760 hr/yr (All Year)
EQT311	IL, B-1538 Blower Discharge		450 ft ³ /min	300 ft ³ /min		8760 hr/yr (All Year)
EQT312	IX, H-601 Hopper		15 ft ³ /min	10 ft ³ /min		8760 hr/yr (All Year)
EQT313	IY, H-602 Hopper		15 ft ³ /min	10 ft ³ /min		8760 hr/yr (All Year)
EQT314	J1, H-670 Hopper		15 ft ³ /min	10 ft ³ /min		8760 hr/yr (All Year)
EQT315	JB, B-1532 Blower Discharge		7500 ft ³ /min	5000 ft ³ /min		8760 hr/yr (All Year)
EQT316	JD, D-1520 Collection Drum Vent	1880 gallons		350 gallons/min		8760 hr/yr (All Year)
EQT317	JE, B-1540A Blower Discharge		605 ft ³ /min	403 ft ³ /min		8760 hr/yr (All Year)
EQT318	JF, B-1540B Blower Discharge		605 ft ³ /min	403 ft ³ /min		8760 hr/yr (All Year)
EQT319	JG, B-1540C Blower Discharge		605 ft ³ /min	403 ft ³ /min		8760 hr/yr (All Year)
EQT320	JH, H-1543 Hopper		425 ft ³ /min	10 ft ³ /min		8760 hr/yr (All Year)
EQT321	JI, B-600A Blower Discharge		777 ft ³ /min	518 ft ³ /min		8760 hr/yr (All Year)
EQT322	JJ, B-600B Blower Discharge		777 ft ³ /min	518 ft ³ /min		8760 hr/yr (All Year)
EQT323	JK, B-600C Blower Discharge		777 ft ³ /min	518 ft ³ /min		8760 hr/yr (All Year)
EQT324	JL, B-600D Blower Discharge		777 ft ³ /min	518 ft ³ /min		8760 hr/yr (All Year)
EQT325	JM, B-600E Blower Discharge		777 ft ³ /min	518 ft ³ /min		8760 hr/yr (All Year)
EQT326	JN, B-600F Blower Discharge		1050 ft ³ /min	700 ft ³ /min		8760 hr/yr (All Year)
EQT327	JO, CT-840 Cooling Tower		18000 gallons/min	18000 gallons/min		8760 hr/yr (All Year)
EQT328	JQ, B-675 Blower Discharge		2400 ft ³ /min	1600 ft ³ /min		8760 hr/yr (All Year)

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT329	JT, FS-860 Flare		25000 scf/hr	15000 scf/hr		8760 hr/yr (All Year)
EQT330	C-102A, Distillation Column Vent					8760 hr/yr (All Year)
EQT331	NA, Train 1 Wet Additive Makedown		38 lb/hr	25 lb/hr		8760 hr/yr (All Year)
EQT333	WH, Extruder Pellet Water Trough	70 gallons		157.68 MM gallons/yr		8760 hr/yr (All Year)
EQT335	C-123A, Distillation Column Vent					8760 hr/yr (All Year)
EQT336	C-1410, Distillation Column Vent					8760 hr/yr (All Year)
EQT337	C-2450, Distillation Column Vent					8760 hr/yr (All Year)
EQT338	C-2410, Distillation Column Vent					8760 hr/yr (All Year)
EQT339	R-120, Reactor Vent					8760 hr/yr (All Year)
EQT340	R-1310, Reactor Vent					8760 hr/yr (All Year)
EQT341	R-1320, Reactor Vent					8760 hr/yr (All Year)
EQT342	T-100, Storage Tank				Isoprene	8760 hr/yr (All Year)
EQT343	T-110, Storage Tank				Butadiene	8760 hr/yr (All Year)
EQT344	T-120, Storage Tank				Styrene	8760 hr/yr (All Year)
EQT345	T-160, Storage Tank				Mixed Solvent	8760 hr/yr (All Year)
EQT346	T-163, Storage Tank					8760 hr/yr (All Year)
EQT347	T-170, Storage Tank				Mixed Solvent	8760 hr/yr (All Year)
EQT348	T-180, Storage Tank					8760 hr/yr (All Year)
EQT350	T-220, Storage Tank					8760 hr/yr (All Year)
EQT351	T-230, Storage Tank				Mixed Solvent	8760 hr/yr (All Year)
EQT352	T-240, Storage Tank					8760 hr/yr (All Year)
EQT354	T-700, Storage Tank				Mixed Solvent	8760 hr/yr (All Year)
EQT356	D-101, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT357	D-111, Storage and Mixing Drum				Isoprene	8760 hr/yr (All Year)
EQT358	D-122, Storage and Mixing Drum				Butadiene	8760 hr/yr (All Year)
EQT359	D-161, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT360	D-162, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT361	D-171, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT362	D-181, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT363	D-210, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT364	D-211, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT365	D-701, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT366	D-730, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT367	D-1311, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT368	D-1312, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT369	D-1313A, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT370	D-1322A, Storage and Mixing Drum					8760 hr/yr (All Year)

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
EQT371	D-1323A, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT372	D-1330, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT373	D-1340, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT374	D-1350, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT375	D-1351, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT376	D-1352, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT377	D-1353, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT379	D-1411, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT380	D-1430, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT381	D-1441, Storage and Mixing Drum				Mixed Solvent	8760 hr/yr (All Year)
EQT382	D-1722A, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT383	D-2350, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT384	D-2351, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT386	D-2405, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT387	D-2412, Storage and Mixing Drum					8760 hr/yr (All Year)
EQT882	C-100A/B, Purification Beds					8760 hr/yr (All Year)
EQT883	C-101A/B, Purification Beds					8760 hr/yr (All Year)
EQT884	C-110A/B, Purification Beds					8760 hr/yr (All Year)
EQT885	C-111A/B, Purification Beds					8760 hr/yr (All Year)
EQT886	C-121C/D, Purification Beds					8760 hr/yr (All Year)
EQT887	C-122A/B, Purification Beds					8760 hr/yr (All Year)
EQT888	C-1720A/B, Purification Beds					8760 hr/yr (All Year)
EQT889	C-2720, Purification Bed					8760 hr/yr (All Year)
EQT890	T-701, Storage Tank					8760 hr/yr (All Year)
EQT896	R-200, Storage Tank					8760 hr/yr (All Year)
FUG010	JS, Fugitive Emissions					8760 hr/yr (All Year)

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT298 BH, H-1541 Hopper
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT299 BI, H-1542 Hopper
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT304 EZ, H-603 Hopper
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT309 II, B-640A Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT310 IJ, B-640B Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT312 IX, H-601 Hopper
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT313 IY, H-602 Hopper

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT314 J1, H-670 Hopper
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT315 JB, B-1532 Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT317 JE, B-1540A Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT318 JF, B-1540B Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT319 JG, B-1540C Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT320 JH, H-1543 Hopper
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT321 JI, B-600A Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT322 JJ, B-600B Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT323 JK, B-600C Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT324 JL, B-600D Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT325 JM, B-600E Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT326 JN, B-600F Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT328 JQ, B-675 Blower Discharge
GRP045	WD, Train 1 Polymer Finishing Section Cap	EQT305 I9, B-2612 Blower Discharge
GRP046	WE, Train 2 Polymer Finishing Section Cap	EQT306 IF, FN-2530 Blower Discharge
GRP046	WE, Train 2 Polymer Finishing Section Cap	EQT307 IG, B-2610A Blower Discharge
GRP046	WE, Train 2 Polymer Finishing Section Cap	EQT308 IH, B-2610B Blower Discharge
GRP137	Vector SBC Plant	EQT292 2E, BU-160 Bag Unloading
GRP137	Vector SBC Plant	EQT293 2F, BU-163 Bag Unloading
GRP137	Vector SBC Plant	EQT294 2G, T-160 Purging
GRP137	Vector SBC Plant	EQT295 2J, T-163 Purging
GRP137	Vector SBC Plant	EQT296 BE, T-180 Purging
GRP137	Vector SBC Plant	EQT297 BG, BU-180 Bag Unloading
GRP137	Vector SBC Plant	EQT298 BH, H-1541 Hopper
GRP137	Vector SBC Plant	EQT299 BI, H-1542 Hopper
GRP137	Vector SBC Plant	EQT300 BP, Train 2 Wet Additive Makedown
GRP137	Vector SBC Plant	EQT301 E8, Dry Antioxidant Makedown
GRP137	Vector SBC Plant	EQT302 E9, Wet Additive Storage Drum
GRP137	Vector SBC Plant	EQT303 EY, D-2445 Water Collection Drum Vent
GRP137	Vector SBC Plant	EQT304 EZ, H-603 Hopper
GRP137	Vector SBC Plant	EQT305 I9, B-2612 Blower Discharge
GRP137	Vector SBC Plant	EQT306 IF, FN-2530 Blower Discharge
GRP137	Vector SBC Plant	EQT307 IG, B-2610A Blower Discharge
GRP137	Vector SBC Plant	EQT308 IH, B-2610B Blower Discharge
GRP137	Vector SBC Plant	EQT309 II, B-640A Blower Discharge
GRP137	Vector SBC Plant	EQT310 IJ, B-640B Blower Discharge
GRP137	Vector SBC Plant	EQT311 IL, B-1538 Blower Discharge

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP137	Vector SBC Plant	EQT312 IX, H-601 Hopper
GRP137	Vector SBC Plant	EQT313 IY, H-602 Hopper
GRP137	Vector SBC Plant	EQT314 JI, H-670 Hopper
GRP137	Vector SBC Plant	EQT315 JB, B-1532 Blower Discharge
GRP137	Vector SBC Plant	EQT316 JD, D-1520 Collection Drum Vent
GRP137	Vector SBC Plant	EQT317 JE, B-1540A Blower Discharge
GRP137	Vector SBC Plant	EQT318 JF, B-1540B Blower Discharge
GRP137	Vector SBC Plant	EQT319 JG, B-1540C Blower Discharge
GRP137	Vector SBC Plant	EQT320 JH, H-1543 Hopper
GRP137	Vector SBC Plant	EQT321 JI, B-600A Blower Discharge
GRP137	Vector SBC Plant	EQT322 JJ, B-600B Blower Discharge
GRP137	Vector SBC Plant	EQT323 JK, B-600C Blower Discharge
GRP137	Vector SBC Plant	EQT324 JL, B-600D Blower Discharge
GRP137	Vector SBC Plant	EQT325 JM, B-600E Blower Discharge
GRP137	Vector SBC Plant	EQT326 JN, B-600F Blower Discharge
GRP137	Vector SBC Plant	EQT327 JO, CT-840 Cooling Tower
GRP137	Vector SBC Plant	EQT328 JQ, B-675 Blower Discharge
GRP137	Vector SBC Plant	EQT329 JT, FS-860 Flare
GRP137	Vector SBC Plant	EQT330 C-102A, Distillation Column Vent
GRP137	Vector SBC Plant	EQT331 NA, Train 1 Wet Additive Makedown
GRP137	Vector SBC Plant	EQT333 WH, Extruder Pellet Water Trough
GRP137	Vector SBC Plant	EQT335 C-123A, Distillation Column Vent
GRP137	Vector SBC Plant	EQT336 C-1410, Distillation Column Vent
GRP137	Vector SBC Plant	EQT337 C-2450, Distillation Column Vent
GRP137	Vector SBC Plant	EQT338 C-2410, Distillation Column Vent
GRP137	Vector SBC Plant	EQT339 R-120, Reactor Vent
GRP137	Vector SBC Plant	EQT340 R-1310, Reactor Vent
GRP137	Vector SBC Plant	EQT341 R-1320, Reactor Vent
GRP137	Vector SBC Plant	EQT342 T-100, Storage Tank
GRP137	Vector SBC Plant	EQT343 T-110, Storage Tank
GRP137	Vector SBC Plant	EQT344 T-120, Storage Tank
GRP137	Vector SBC Plant	EQT345 T-160, Storage Tank
GRP137	Vector SBC Plant	EQT346 T-163, Storage Tank
GRP137	Vector SBC Plant	EQT347 T-170, Storage Tank
GRP137	Vector SBC Plant	EQT348 T-180, Storage Tank
GRP137	Vector SBC Plant	EQT350 T-220, Storage Tank
GRP137	Vector SBC Plant	EQT351 T-230, Storage Tank

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP137	Vector SBC Plant	EQT352 T-240, Storage Tank
GRP137	Vector SBC Plant	EQT354 T-700, Storage Tank
GRP137	Vector SBC Plant	EQT356 D-101, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT357 D-111, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT358 D-122, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT359 D-161, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT360 D-162, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT361 D-171, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT362 D-181, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT363 D-210, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT364 D-211, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT365 D-701, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT366 D-730, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT367 D-1311, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT368 D-1312, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT369 D-1313A, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT370 D-1322A, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT371 D-1323A, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT372 D-1330, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT373 D-1340, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT374 D-1350, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT375 D-1351, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT376 D-1352, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT377 D-1353, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT379 D-1411, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT380 D-1430, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT381 D-1441, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT382 D-1722A, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT383 D-2350, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT384 D-2351, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT386 D-2405, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT387 D-2412, Storage and Mixing Drum
GRP137	Vector SBC Plant	EQT882 C-100A/B, Purification Beds
GRP137	Vector SBC Plant	EQT883 C-101A/B, Purification Beds
GRP137	Vector SBC Plant	EQT884 C-110A/B, Purification Beds
GRP137	Vector SBC Plant	EQT885 C-111A/B, Purification Beds
GRP137	Vector SBC Plant	EQT886 C-121C/D, Purification Beds

INVENTORIES

AJ ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP137	Vector SBC Plant	EQT887 C-122A/B, Purification Beds
GRP137	Vector SBC Plant	EQT888 C-1720A/B, Purification Beds
GRP137	Vector SBC Plant	EQT889 C-2720, Purification Bed
GRP137	Vector SBC Plant	EQT890 T-701, Storage Tank
GRP137	Vector SBC Plant	EQT896 R-200, Storage Tank
GRP137	Vector SBC Plant	FUG10 JS, Fugitive Emissions
GRP138	Distillation Columns	EQT335 C-123A, Distillation Column Vent
GRP138	Distillation Columns	EQT337 C-2450, Distillation Column Vent
GRP139	Distillation Columns	EQT330 C-102A, Distillation Column Vent
GRP139	Distillation Columns	EQT336 C-1410, Distillation Column Vent
GRP139	Distillation Columns	EQT882 C-100A/B, Purification Beds
GRP139	Distillation Columns	EQT883 C-101A/B, Purification Beds
GRP139	Distillation Columns	EQT888 C-1720A/B, Purification Beds
GRP139	Distillation Columns	EQT889 C-2720, Purification Bed
GRP140	Reactors	EQT339 R-120, Reactor Vent
GRP140	Reactors	EQT341 R-1320, Reactor Vent
GRP141	Distillation Columns	EQT884 C-110A/B, Purification Beds
GRP141	Distillation Columns	EQT885 C-111A/B, Purification Beds
GRP141	Distillation Columns	EQT886 C-121C/D, Purification Beds
GRP141	Distillation Columns	EQT887 C-122A/B, Purification Beds
GRP142	Tanks and Drums	EQT342 T-100, Storage Tank
GRP142	Tanks and Drums	EQT354 T-700, Storage Tank
GRP142	Tanks and Drums	EQT365 D-701, Storage and Mixing Drum
GRP142	Tanks and Drums	EQT374 D-1350, Storage and Mixing Drum
GRP142	Tanks and Drums	EQT375 D-1351, Storage and Mixing Drum
GRP142	Tanks and Drums	EQT376 D-1352, Storage and Mixing Drum
GRP142	Tanks and Drums	EQT377 D-1353, Storage and Mixing Drum
GRP142	Tanks and Drums	EQT383 D-2350, Storage and Mixing Drum
GRP142	Tanks and Drums	EQT384 D-2351, Storage and Mixing Drum
GRP142	Tanks and Drums	EQT890 T-701, Storage Tank
GRP143	Tank and Drum	EQT343 T-110, Storage Tank
GRP143	Tank and Drum	EQT366 D-730, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT345 T-160, Storage Tank
GRP144	Drums and Tanks	EQT346 T-163, Storage Tank
GRP144	Drums and Tanks	EQT347 T-170, Storage Tank
GRP144	Drums and Tanks	EQT348 T-180, Storage Tank
GRP144	Drums and Tanks	EQT356 D-101, Storage and Mixing Drum

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP144	Drums and Tanks	EQT359 D-161, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT360 D-162, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT361 D-171, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT362 D-181, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT363 D-210, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT364 D-211, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT372 D-1330, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT373 D-1340, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT379 D-1411, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT380 D-1430, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT382 D-1722A, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT386 D-2405, Storage and Mixing Drum
GRP144	Drums and Tanks	EQT387 D-2412, Storage and Mixing Drum
GRP145	Bag Unloading Purging	EQT294 2G, T-160 Purging
GRP145	Bag Unloading Purging	EQT295 2J, T-163 Purging
GRP145	Bag Unloading Purging	EQT296 BE, T-180 Purging
GRP146	Wet Additive Makedown Train 1 and 2	EQT300 BP, Train 2 Wet Additive Makedown
GRP146	Wet Additive Makedown Train 1 and 2	EQT331 NA, Train 1 Wet Additive Makedown
GRP147	Bag Unloading	EQT292 2E, BU-160 Bag Unloading
GRP147	Bag Unloading	EQT293 2F, BU-163 Bag Unloading
GRP147	Bag Unloading	EQT297 BG, BU-180 Bag Unloading
GRP148	Blowers and Hoppers	EQT288 BH, H-1541 Hopper
GRP148	Blowers and Hoppers	EQT299 BI, H-1542 Hopper
GRP148	Blowers and Hoppers	EQT304 EZ, H-603 Hopper
GRP148	Blowers and Hoppers	EQT305 I9, B-2612 Blower Discharge
GRP148	Blowers and Hoppers	EQT306 IF, FN-2530 Blower Discharge
GRP148	Blowers and Hoppers	EQT307 IG, B-2610A Blower Discharge
GRP148	Blowers and Hoppers	EQT308 IH, B-2610B Blower Discharge
GRP148	Blowers and Hoppers	EQT309 II, B-640A Blower Discharge
GRP148	Blowers and Hoppers	EQT310 IJ, B-640B Blower Discharge
GRP148	Blowers and Hoppers	EQT311 IL, B-1538 Blower Discharge
GRP148	Blowers and Hoppers	EQT312 IX, H-601 Hopper
GRP148	Blowers and Hoppers	EQT313 IY, H-602 Hopper
GRP148	Blowers and Hoppers	EQT314 J1, H-670 Hopper
GRP148	Blowers and Hoppers	EQT315 JB, B-1532 Blower Discharge
GRP148	Blowers and Hoppers	EQT317 JE, B-1540A Blower Discharge
GRP148	Blowers and Hoppers	EQT318 JF, B-1540B Blower Discharge

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Subject Item Groups:

ID	Description	Included Components (from Above)
GRP148	Blowers and Hoppers	EQT319 JG, B-1540C Blower Discharge
GRP148	Blowers and Hoppers	EQT320 JH, H-1543 Hopper
GRP148	Blowers and Hoppers	EQT321 JI, B-600A Blower Discharge
GRP148	Blowers and Hoppers	EQT322 JJ, B-600B Blower Discharge
GRP148	Blowers and Hoppers	EQT323 JK, B-600C Blower Discharge
GRP148	Blowers and Hoppers	EQT324 JL, B-600D Blower Discharge
GRP148	Blowers and Hoppers	EQT325 JM, B-600E Blower Discharge
GRP148	Blowers and Hoppers	EQT326 JN, B-600F Blower Discharge
GRP148	Blowers and Hoppers	EQT328 JQ, B-675 Blower Discharge

Relationships:

Subject Item	Relationship	Subject Item
EQT330 C-102A, Distillation Column Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT335 C-123A, Distillation Column Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT336 C-1410, Distillation Column Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT337 C-2450, Distillation Column Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT338 C-2410, Distillation Column Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT339 R-120, Reactor Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT340 R-1310, Reactor Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT341 R-1320, Reactor Vent	Controlled by	EQT329 JT, FS-860 Flare
EQT342 T-100, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT343 T-110, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT344 T-120, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT345 T-160, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT346 T-163, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT347 T-170, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT348 T-180, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT350 T-220, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT351 T-230, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT352 T-240, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT354 T-700, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT356 D-101, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT357 D-111, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT358 D-122, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT359 D-161, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT360 D-162, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT361 D-171, Storage and Mixing Drum	Controls emissions from	EQT329 JT, FS-860 Flare

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Relationships:

Subject Item	Relationship	Subject Item
EQT362 D-181, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT363 D-210, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT364 D-211, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT365 D-701, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT366 D-730, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT367 D-1311, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT368 D-1312, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT369 D-1313A, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT370 D-1322A, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT371 D-1323A, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT372 D-1330, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT373 D-1340, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT374 D-1350, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT375 D-1351, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT376 D-1352, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT377 D-1353, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT379 D-1411, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT380 D-1430, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT381 D-1441, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT382 D-1722A, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT383 D-2350, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT384 D-2351, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT386 D-2405, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT387 D-2412, Storage and Mixing Drum	Controlled by	EQT329 JT, FS-860 Flare
EQT882 C-100A/B, Purification Beds	Controlled by	EQT329 JT, FS-860 Flare
EQT883 C-101A/B, Purification Beds	Controlled by	EQT329 JT, FS-860 Flare
EQT884 C-110A/B, Purification Beds	Controlled by	EQT329 JT, FS-860 Flare
EQT885 C-111A/B, Purification Beds	Controlled by	EQT329 JT, FS-860 Flare
EQT886 C-121C/D, Purification Beds	Controlled by	EQT329 JT, FS-860 Flare
EQT887 C-122A/B, Purification Beds	Controlled by	EQT329 JT, FS-860 Flare
EQT888 C-1720A/B, Purification Beds	Controlled by	EQT329 JT, FS-860 Flare
EQT889 C-2720, Purification Bed	Controlled by	EQT329 JT, FS-860 Flare
EQT890 T-701, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare
EQT896 R-200, Storage Tank	Controlled by	EQT329 JT, FS-860 Flare

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

Stack Information:

ID	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
EQT292					23	
EQT293					23	
EQT294	5.1	6.7		.02	27	
EQT295	5.1	6.7		.02	27	
EQT296	5.1	6.7		.02	27	
EQT297					23	
EQT298	.05	10	2		53	80
EQT299	.05	10	2		53	80
EQT300					5	68
EQT301	.37	1.7	.31		4.5	200
EQT302	1.33	60		2.67	22.5	200
EQT303	.05	10	2		30	80
EQT304	45.5	1600		.11	11	80
EQT305	70	40000		9	33.5	80
EQT306	131	1150	.03		10	80
EQT307	131	1150	.03		10	80
EQT308	88	1200	.42		10	80
EQT309	88	1200	.42		10	80
EQT310	102	300	.25		20	80
EQT311	.05	10	2		30	80
EQT312	.05	10	2		30	80
EQT313	.05	10	2		30	80
EQT314	.05	10	2		30	80
EQT315	34	5000	1.94		10	80
EQT316	1	1	8		5	100
EQT317	79	403	.33		10	80
EQT318	79	403	.33		10	80
EQT319	79	403	.33		10	80
EQT320	.05	10	2		18	80
EQT321	101	518	.33		10	80
EQT322	101	518	.33		10	80
EQT323	101	518	.33		10	80
EQT324	101	518	.33		10	80
EQT325	101	518	.33		10	80
EQT326	101	700	.33		10	80
EQT327	.1	1300		226	31	80
EQT328	127	1600	.33		10	80
EQT329	6.6	250		1.77	125	1200
EQT331					25	68
EQT333	1	60		1	10	80

INVENTORIES

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

Fee Information:

Subj Item Id	Multiplier	Units Of Measure	Fee Desc
GRP137		MM Lb/Yr	0420 - Caustic/Chlorine (Rated Capacity)
		MM Lb/Yr	0570 - Synthetic Resins Manufacture N.E.C. (Rated Capacity)
		MM Lb/Yr	0630 - Organic Oxides, Alcohols, Glycols (Rated Capacity)

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 292 2E	0.03	15.2	0.1												
EQT 293 2F	0.04	15.2	0.2												
EQT 294 2G	0.01	0.61	0.02							0.01	1.2	0.05			
EQT 295 2J	0.01	1.1	0.02							0.02	2.3	0.1			
EQT 296 BE	0.01	0.33	0.1							0.10	1.2	0.4			
EQT 297 BG	0.04	30.4	0.2												
EQT 298 BH		0.02									0.37				
EQT 299 BI		0.02									0.37				
EQT 300 BP	0.02	15.2	0.1												
EQT 301 EB	0.06	15.2	0.3												
EQT 302 E9													0.001	0.002	< 0.01
EQT 303 EY													1.2	4.7	5.2
EQT 304 EZ		0.02												0.37	
EQT 305 I9		0.17												2.7	
EQT 306 IF		14.4												360.0	
EQT 307 IG		0.38												6.1	
EQT 308 IH		0.38												6.1	
EQT 309 II		0.92												60.0	

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 310 IJ		0.92												60.0	
EQT 311 IL	0.11	4.2	0.5												
EQT 312 IX		0.02												0.37	
EQT 313 IY		0.02												0.37	
EQT 314 JI		0.02												0.37	
EQT 315 JB		5.8												183.8	
EQT 316 JD													0.12	0.48	0.5
EQT 317 JE		0.47												14.8	
EQT 318 JF		0.47												14.8	
EQT 319 JG		0.47												14.8	
EQT 320 JH		0.02												0.37	
EQT 321 JI		0.60												19.0	
EQT 322 JJ		0.60												19.0	
EQT 323 JK		0.60												19.0	
EQT 324 JL		0.60												19.0	
EQT 325 JM		0.60												19.0	
EQT 326 JN		0.60												19.0	
EQT 327 JO	0.76	3.0	3.3												

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

All phases

Subject Item	PM ₁₀			SO ₂			NOx			CO			VOC		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 328 JQ		2.3												73.5	
EQT 329 JT	< 0.001	< 0.001	0.01	0.36	1.4	1.6	3.1	12.6	13.7	11.8	44.7	48.9	4.2	105.2	18.3
EQT 331 NA	0.01	15.2	0.1												
EQT 333 WH													0.27	2.2	1.2
FUG 010 JS													2.5		10.9
GRP 045	1.7		7.4										8.7		38.3
GRP 046	3.6		15.8										37.1		162.5

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Phase Totals:

PM10: 28.18 tons/yr
 SO2: 1.6 tons/yr
 NOx: 13.7 tons/yr
 CO: 48.9 tons/yr
 VOC: 237.45 tons/yr

Emission rates Notes:

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AJ ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

All phases

Subject Item	1,3-Butadiene			Chlorine			Ethyl benzene			Methanol			Ozone Depleting Substances		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 327 JO				0.02	0.10	0.1									
EQT 329 JT	0.46	6.7	2.0				< 0.001	10.00	< 0.01	< 0.001	0.51	< 0.01			
FUG 010 JS	0.21		0.9							0.07		0.3	0.13		0.6

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
 Activity Number: PER20040045
 Permit Number: 2025-V2
 Air - Title V Regular Permit Renewal

All phases

Subject Item	Styrene			Toluene		
	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
EQT 327 JO						
EQT 329 JT	0.14	19.3	0.6	< 0.001	3.5	< 0.01
FUG 010 JS	0.51		2.2			

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals

Permit Parameter Totals:

- 1,3-Butadiene: 2.9 tons/yr
- Chlorine: 0.1 tons/yr
- Ethyl benzene: <0.01 tons/yr
- Methanol: 0.3 tons/yr
- Ozone Depleting Substances: 0.6 tons/yr
- Styrene: 2.8 tons/yr
- Toluene: <0.01 lb/hr

Emission Rates Notes:

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

EQT301 E8, Dry Antioxidant Makedown

- 1 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]

EQT327 JO, CT-840 Cooling Tower

- 2 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is not required for Class III TPAs. [LAC 33:III.5109.A]
- 3 Shall comply with all applicable requirements for heat exchange systems under 40 CFR Subpart FFFF. [40 CFR 63.2490]

EQT329 JT, FS-860 Flare

- 4 Opacity \leq 20 percent, except for a combined total of six hours in any 10 consecutive day period, for burning in connection with pressure valve releases for control over process upsets. [LAC 33:III.1105]
Which Months: All Year Statistical Basis: None specified
- 5 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), as soon as possible after the start of burning of pressure valve releases for control over process upsets. Notify in accordance with LAC 33:III.3923. Notification is required only if the upset cannot be controlled in six hours. [LAC 33:III.1105]
- 6 Submit report: Due in writing to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, within seven calendar days after startup or shutdown, if flaring was not the result of failure to maintain or repair equipment. Submit report if requesting exemption from the provisions of LAC 33:III.1105. Explain the conditions and duration of the startup or shutdown and list the steps necessary to remedy, prevent and limit the excess emissions. Minimize flaring and ensure that no ambient air quality standards are jeopardized. [LAC 33:III.1107]
- 7 Opacity \leq 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. [LAC 33:III.1311.C]
Which Months: All Year Statistical Basis: Six-minute average
- 8 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 9 Comply with all applicable requirements of 40 CFR 60.18. [40 CFR 60.18]
- 10 Monitor flares to assure that they are operated and maintained in conformance with their designs. Subpart A. [40 CFR 63.11(b)(1)]
- 11 Operate at all times when emissions may be vented to the flare. Subpart A. [40 CFR 63.11(b)(3)]
- 12 Design and operate for no visible emissions, as determined using Test Method 22 in Appendix A of 40 CFR 60, except for periods not to exceed a total of 5 minutes during any two consecutive hours. Subpart A. [40 CFR 63.11(b)(4)]
- 13 Operate with a flame present at all times. Subpart A. [40 CFR 63.11(b)(5)]
- 14 Presence of a flame monitored by flame monitor continuously. Use a thermocouple or any other equivalent device to detect the presence of a flame. Subpart A. [40 CFR 63.11(b)(5)]
Which Months: All Year Statistical Basis: None specified
- 15 Heat content \geq 300 BTU/scf (11.2 MJ/scm). Determine the net heating value of the gas being combusted using the equation specified in 40 CFR 63.11(b)(6)(ii). Subpart A. [40 CFR 63.11(b)(6)(ii)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

EQT329 JT, FS-860 Flare

16 Exit Velocity < 60 ft/sec (18.3 m/sec), as determined using the method specified in 40 CFR 63.11(b)(7)(i). Subpart A. [40 CFR 63.11(b)(7)(i)]
Which Months: All Year Statistical Basis: None specified

EQT338 C-2410, Distillation Column Vent

- 17 Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]
Which Months: All Year Statistical Basis: None specified
- 18 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 19 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 20 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 21 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 22 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 23 Shall comply with all applicable requirements for continuous process vent under 40 CFR Subpart FFFF. Flare FS-860 (EQT 329) with 98% control efficiency for total organic HAP is used as the control device. [40 CFR 63.2455]

EQT340 R-1310, Reactor Vent

- 24 Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]
Which Months: All Year Statistical Basis: None specified
- 25 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 26 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 27 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 28 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 29 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 30 Shall comply with all applicable requirements for batch process vent under 40 CFR Subpart FFFF. Flare FS-860 (EQT 329) with 98% control efficiency for total organic HAP is used as the control device. [40 CFR 63.2460]

EQT344 T-120, Storage Tank

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

EQT344 T-120, Storage Tank

- 31 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 32 Shall comply with all applicable requirements for storage tanks under 40 CFR Subpart FFFF. Flare FS-860 (EQT 329) with 98% control efficiency for total organic HAP is used as the control device. [40 CFR 63.2460]

EQT352 T-240, Storage Tank

- 33 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 34 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
- Which Months: All Year Statistical Basis: None specified
- 35 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 36 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 37 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]

EQT357 D-111, Storage and Mixing Drum

- 38 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 39 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
- Which Months: All Year Statistical Basis: None specified
- 40 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 41 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 42 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 43 Shall comply with all applicable requirements for storage tanks under 40 CFR Subpart FFFF. Flare FS-860 (EQT 329) with 98% control efficiency for total organic HAP is used as the control device. [40 CFR 63.2460]

EQT358 D-122, Storage and Mixing Drum

- 44 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 45 Shall comply with all applicable requirements for storage tanks under 40 CFR Subpart FFFF. Flare FS-860 (EQT 329) with 98% control efficiency for total organic HAP is used as the control device. [40 CFR 63.2460]

FUG010 JS, Fugitive Emissions

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 46 Comply with LAC 33:III.2122, LAC 33:III.5109, 40 CFR 63 Subpart H, 40 CFR 63 Subpart I, and 40 CFR 63 Subpart FFFF by implementing the Louisiana Consolidated Fugitive Emission Program Guidelines. Compliance is achieved through compliance with overall most stringent program - 40 CFR 63 Subpart H - HON. [LAC 33:III.501]
- 47 Identify each piece of equipment in a process unit such that it can be distinguished readily from equipment that is not subject to 40 CFR 63 Subpart H. [40 CFR 63.162(e)]
- 48 Clearly identify leaking equipment, for leaking equipment detected as specified in 40 CFR 63.163, 40 CFR 63.164, 40 CFR 63.168, 40 CFR 63.169, and 40 CFR 63.172 through 63.174. The identification may be removed after the equipment is repaired, except for valves or for connectors subject to 40 CFR 63.174(c)(1)(i). The identification on a valve may be removed after it has been monitored as specified in 40 CFR 63.168(f)(3) and 63.175(e)(i)(D), and no leak has been detected during the follow-up monitoring. If electing to comply using the provisions of 40 CFR 63.174(c)(1)(i), the identification on a connector may be removed after it is monitored as specified in 40 CFR 63.174(c)(1)(i) and no leak is detected during that monitoring. Subpart H. [40 CFR 63.162(f)]
- 49 Pumps in light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, except as provided in 40 CFR 63.162(b) and 63.163(e) through (j). If a reading of 10,000 ppm (phase I); 5,000 ppm (phase II); or 5,000 ppm (phase III, pumps handling polymerizing monomers), 2,000 ppm (phase III, pumps in food/medical service), or 1,000 ppm (phase III, all other pumps) or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(1)]
- Which Months: All Year Statistical Basis: None specified
- 50 Pumps in light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquids dripping from the pump seal, a leak is detected. If a leak is detected, initiate the repair provisions specified in 40 CFR 63.163(c). Subpart H. [40 CFR 63.163(b)(3)]
- Which Months: All Year Statistical Basis: None specified
- 51 Pumps in light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.163(c)(3) and 40 CFR 63.171. Subpart H. [40 CFR 63.163(c)]
- 52 Pumps in light liquid service: Implement a quality improvement program for pumps that complies with the requirements of 40 CFR 63.176, if, in Phase III, calculated on a 6-month rolling average, the greater of either 10 percent of the pumps in a process unit or three pumps in a process unit leak. Subpart H. [40 CFR 63.163(d)(2)]
- 53 Pumps in light liquid service: Determine percent leaking pumps using the equation in 40 CFR 63.163(d)(4). Subpart H. [40 CFR 63.163(d)(4)]
- 54 Pumps in light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(1)]
- 55 Pumps in light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid service. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(2)]
- 56 Pumps in light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(3)]
- 57 Pumps in light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the pump seal. If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, monitor the pump as specified in 40 CFR 63.180(b) to determine if there is a leak of organic HAP in the barrier fluid. If an instrument reading of 1,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(4)]
- Which Months: All Year Statistical Basis: None specified
- 58 Pumps in light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)(i)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 59 Pumps in light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)(6)]
- 60 Pumps in light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the pump is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.163(e)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.163(e)(6). Comply with this requirement instead of the requirements in 40 CFR 63.163(a) through (d). Subpart H. [40 CFR 63.163(e)]
Which Months: All Year Statistical Basis: None specified
- 61 Pumps in light liquid service (unsafe-to-monitor): Determine that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.163(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(1)]
- 62 Pumps in light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.163(b) through (e). Subpart H. [40 CFR 63.163(j)(2)]
Which Months: All Year Statistical Basis: None specified
- 63 Compressors: Equip with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to the atmosphere, except as provided in 40 CFR 63.162(b) and 40 CFR 63.164(h) and (i). Subpart H. [40 CFR 63.164(a)]
- 64 Compressors: Operate the seal system with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or equip with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid directly into a process stream. Subpart H. [40 CFR 63.164(b)]
- 65 Compressors: Ensure that the barrier fluid is not in light liquid service. Subpart H. [40 CFR 63.164(c)]
- 66 Compressors: Equip each barrier fluid system as described in 40 CFR 63.164(a) through (c) with a sensor that will detect failure of the seal system, barrier fluid system, or both. Subpart H. [40 CFR 63.164(d)]
- 67 Compressors (sensor): Determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both. Subpart H. [40 CFR 63.164(e)(2)]
- 68 Compressors: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.164(g)]
- 69 Compressors (no detectable emissions): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially and annually, and at other times requested by DEQ. Comply with this requirement instead of the requirements in 40 CFR 63.164(a) through (h). Subpart H. [40 CFR 63.164(i)(2)]
Which Months: All Year Statistical Basis: None specified
- 70 Compressors (sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an alarm, unless the compressor is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under 40 CFR 63.164(e)(2), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.164(g). Subpart H. [40 CFR 63.164]
Which Months: All Year Statistical Basis: None specified
- 71 Pressure relief device in gas/vapor service: Organic HAP < 500 ppm above background except during pressure releases, as determined by the method specified in 63.180(c). Subpart H. [40 CFR 63.165(a)]
Which Months: All Year Statistical Basis: None specified
- 72 Pressure relief devices in gas/vapor service: After each pressure release, return to a condition indicated by an instrument reading of less than 500 ppm above background, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.165(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 73 Pressure relief devices in gas/vapor service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) after the pressure release and being returned to organic HAP service, to confirm the condition indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 63.180(c). Subpart H. [40 CFR 63.165(b)(2)]
Which Months: All Year Statistical Basis: None specified
- 74 Pressure relief devices in gas/vapor service (rupture disk): After each pressure release, install a new rupture disk upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.165(a) and (b). Subpart H. [40 CFR 63.165(d)(2)]
- 75 Sampling connection systems: Equip with a closed-purge, closed-loop, or closed-vent system, except as provided in 40 CFR 63.162(b). Operate the system as specified in 40 CFR 63.166(b). Subpart H. [40 CFR 63.166]
- 76 Open-ended valves or lines: Equip with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 63.162(b) and 40 CFR 63.167(d) and (e). Ensure that the cap, blind flange, plug or second valve seals the open end at all times except during operations requiring process fluid flow through the open-ended valve or line, or during maintenance or repair. Operate each open-ended valve or line equipped with a second valve in a manner such that the valve on the process fluid end is closed before the second valve is closed. Subpart H. [40 CFR 63.167]
- 77 Valves in gas/vapor service or light liquid service (Phase I): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified
- 78 Valves in gas/vapor service or light liquid service (Phase II): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). Subpart H. [40 CFR 63.168(c)]
Which Months: All Year Statistical Basis: None specified
- 79 Valves in gas/vapor service or light liquid service (Phase III, 2 percent or greater leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly, as specified in 40 CFR 63.180(b); or implement a quality improvement program for valves that complies with the requirements of 40 CFR 63.175 and monitor quarterly. If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to implement a quality improvement program, follow the procedures in 40 CFR 63.175. Subpart H. [40 CFR 63.168(d)(1)]
Which Months: All Year Statistical Basis: None specified
- 80 Valves in gas/vapor service or light liquid service (Phase III, less than 2 percent leaking valves): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 quarterly, as specified in 40 CFR 63.180(b). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.168(f). If electing to comply with the alternate standards in 40 CFR 63.168(d)(3) and (d)(4). Subpart H. [40 CFR 63.168(d)(2)]
Which Months: All Year Statistical Basis: None specified
- 81 Valves in gas/vapor service or light liquid service: Determine percent leaking valves using the equation in 40 CFR 63.168(e)(1). Subpart H. [40 CFR 63.168(e)(1)]
- 82 Valves in gas/vapor service or light liquid service (after leak repair): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within three months (at least) after repair to determine whether the valve has resumed leaking. Subpart H. [40 CFR 63.168(f)(3)]
Which Months: All Year Statistical Basis: None specified
- 83 Valves in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after a leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.168(f)]
- 84 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.168(b) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division
Activity Number: PER20040045
Permit Number: 2025-V2
Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 85 Valves in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the valves as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (f). Subpart H. [40 CFR 63.168(h)(2)]
Which Months: All Year Statistical Basis: None specified
- 86 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Demonstrate that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(i)(1)]
- 87 Valves in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the valves at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.168(b) through (d). Subpart H. [40 CFR 63.168(j)(3)]
Which Months: All Year Statistical Basis: None specified
- 88 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 within 5 days (calendar) if evidence of a potential leak to the atmosphere is found by visible, audible, olfactory, or any other detection method. If a reading of 10,000 ppm for agitators, 5,000 ppm for pumps handling polymerizing monomers, 2,000 ppm for all other pumps (including pumps in food/medical service), or 500 ppm for valves, connectors, instrumentation systems, and pressure relief devices, or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.169(c). Subpart H. [40 CFR 63.169(a)]
Which Months: All Year Statistical Basis: None specified
- 89 Pumps, valves, connectors, and agitators in heavy liquid service; instrumentation systems; and pressure relief devices in liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.169(c)]
- 90 Surge control vessels and bottoms receivers: Equip with a closed-vent system that routes the organic vapors vented from the surge control vessel or bottoms receiver back to the process or to a control device that complies with the requirements of 40 CFR 63.172, except as provided in 40 CFR 63.162(b), or comply with the requirements of 40 CFR 63.119(b) or (c), if surge control vessel or bottoms receiver is not routed back to the process and meets the conditions specified in 40 CFR 63 Subpart H Table 2 or Table 3. Subpart H. [40 CFR 63.170]
- 91 Closed-vent system (hard-piping): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once initially according to the procedures in 40 CFR 63.180(b). If an instrument reading greater than 500 ppm above background is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 92 Closed-vent system (hard-piping): Presence of a leak monitored by visual, audible, and/or olfactory annually. If a leak is detected, initiate repair provisions in 40 CFR 63.172(h). Subpart H. [40 CFR 63.172(f)(1)(ii)]
Which Months: All Year Statistical Basis: None specified
- 93 Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.172(i). Subpart H. [40 CFR 63.172(h)]
- 94 Closed-vent system (bypass lines): Flow monitored by flow indicator once every 15 minutes. Install flow indicator at the entrance to any bypass line. Subpart H. [40 CFR 63.172(j)(1)]
Which Months: All Year Statistical Basis: None specified
- 95 Closed-vent system (bypass lines): Flow recordkeeping by electronic or hard copy once every 15 minutes. Generate records as specified in 40 CFR 63.118(a)(3). Subpart H. [40 CFR 63.172(j)(1)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 96 Closed-vent system (bypass lines): Secure the bypass line valve in the non-diverting position with a car-seal or a lock-and-key type configuration. Subpart H. [40 CFR 63.172(j)(2)]
- 97 Closed-vent system (bypass lines): Seal or closure mechanism monitored by visual inspection/determination monthly to ensure the valve is maintained in the non-diverting position and the vent stream is not diverted through the bypass line. Subpart H. [40 CFR 63.172(j)(2)]
Which Months: All Year Statistical Basis: None specified
- 98 Closed-vent system (unsafe-to-inspect): Demonstrate that the equipment is unsafe to inspect because inspecting personnel would be exposed to an imminent or potential dangers as a consequence of complying with 40 CFR 63.172(f)(1) or (f)(2). Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(1)]
- 99 Closed-vent system (unsafe-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires inspection of the equipment as frequently as practicable during safe-to-inspect times, but not more frequently than annually. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(k)(2)]
Which Months: All Year Statistical Basis: None specified
- 100 Closed-vent system (difficult-to-inspect): Demonstrate that the equipment cannot be inspected without elevating the inspecting personnel more than 2 meters above a support surface. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(1)]
- 101 Closed-vent system (difficult-to-inspect): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every five years. Maintain a written plan that requires inspection of the equipment at least once every five years. Comply with this requirement instead of the requirements in 40 CFR 63.172(f)(1) and (f)(2). Subpart H. [40 CFR 63.172(l)(2)]
Which Months: All Year Statistical Basis: None specified
- 102 Ensure that the closed-vent system or control device is operating whenever organic HAP emissions are vented to the closed-vent system or control device. Subpart H. [40 CFR 63.172(m)]
- 103 Agitators in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 monthly to detect leaks, as specified in 40 CFR 63.180(b). If an instrument reading of 10,000 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(a)]
Which Months: All Year Statistical Basis: None specified
- 104 Agitators in gas/vapor service or light liquid service: Presence of a leak monitored by visual inspection/determination weekly (calendar) for indications of liquids dripping from the agitator. If there are indications of liquids dripping from the agitator, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.173(c). Subpart H. [40 CFR 63.173(b)]
Which Months: All Year Statistical Basis: None specified
- 105 Agitators in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171. Subpart H. [40 CFR 63.173(c)]
- 106 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Operate with the barrier fluid at a pressure that is at all times greater than the agitator stuffing box pressure; or equip with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 63.172; or equip with a closed-loop system that purges the barrier fluid into a process stream. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(1)]
- 107 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Ensure that the barrier fluid is not in light liquid organic HAP service. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(2)]
- 108 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Equip barrier fluid system with a sensor that will detect failure of the seal system, barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(3)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 109 Agitators in gas/vapor service or light liquid service (dual mechanical seal system): Presence of a leak monitored by visual inspection/determination weekly (calendar). Monitor for indications of liquids dripping from the agitator seal. If there are indications of liquid dripping from the agitator seal at the time of the weekly inspection, monitor the agitator as specified in 40 CFR 63.180(b) to determine the presence of organic HAP in the barrier fluid. If an instrument reading of 10,000 ppm or greater is measured, a leak is detected. If a leak is detected, initiate the repair provisions in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(4)]
Which Months: All Year Statistical Basis: None specified
- 110 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Determine, based on design considerations and operating experience, criteria that indicates failure of the seal system, the barrier fluid system, or both. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)(i)]
- 111 Agitators in gas/vapor service and light liquid service (dual mechanical seal system): Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 63.171. Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)(6)]
- 112 Agitators in gas/vapor service or light liquid service (dual mechanical seal system - sensor): Equipment/operational data monitored by visual inspection/determination daily, or equip with an audible alarm unless the agitator is located within the boundary of an unmanned plant site. If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criteria established in 40 CFR 63.173(d)(6), a leak is detected. If a leak is detected, initiate repair provisions specified in 40 CFR 63.173(d)(6). Comply with this requirement instead of the requirements in 40 CFR 63.173(a). Subpart H. [40 CFR 63.173(d)]
Which Months: All Year Statistical Basis: None specified
- 113 Agitators in gas/vapor service or light liquid service (difficult to monitor): Demonstrate that the agitator cannot be monitored without elevating the monitoring personnel more than two meters above a support surface or it is not accessible at anytime in a safe manner. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(1)]
- 114 Agitators in gas/vapor service or light liquid service (difficult-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Maintain a written plan that requires monitoring of the agitator at least once per calendar year. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(h)(3)]
Which Months: All Year Statistical Basis: None specified
- 115 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the agitator is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.173(a) through (d). Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(1)]
- 116 Agitators in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of the agitator as frequently as practicable during safe-to-monitor times, but not more frequently than the periodic monitoring schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.173(a) through (d). Subpart H. [40 CFR 63.173(j)(2)]
Which Months: All Year Statistical Basis: None specified
- 117 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within 12 months after the compliance date, except as provided in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(1)]
Which Months: All Year Statistical Basis: None specified
- 118 Connectors in gas/vapor service or light liquid service: Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once within the first 12 months after initial startup or by no later than 12 months after the date of promulgation of a specific subpart that references 40 CFR 63 Subpart H, whichever is later, except as specified in 40 CFR 63.174(f) through (h). If an instrument reading of 500 ppm or greater is recorded, a leak is detected. If a leak is detected, initiate repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(b)(2)]
Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 119 Connectors in gas/vapor service or light liquid service (0.5% or greater leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 annually. Subpart H. [40 CFR 63.174(b)(3)(i)]
Which Months: All Year Statistical Basis: None specified
- 120 Connectors in gas/vapor service or light liquid service (less than 0.5% leaking): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 once every two years. Subpart H. [40 CFR 63.174(b)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 121 Connectors in gas/vapor service or light liquid service (opened or otherwise had the seal broken): Presence of a leak monitored by 40 CFR 60, Appendix A, Method 21 within three months after being returned to organic HAP service or when it is reconnected. If monitoring detects a leak, repair according to the provisions of 40 CFR 63.174(d), as specified, except as provided in 40 CFR 63.174(c)(1)(ii). Subpart H. [40 CFR 63.174(c)(1)(i)]
Which Months: All Year Statistical Basis: None specified
- 122 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Comply with the requirements of 40 CFR 63.169. Subpart H. [40 CFR 63.174(c)(2)(i)]
- 123 Connectors in gas/vapor service or light liquid service (2 inches or less in nominal diameter): Organic HAP monitored by technically sound method within three months after being returned to organic HAP service after having been opened or otherwise had the seal broken. If monitoring detects a leak, implement repair provisions in 40 CFR 63.174(d). Subpart H. [40 CFR 63.174(c)(2)(ii)]
Which Months: All Year Statistical Basis: None specified
- 124 Connectors in gas/vapor service or light liquid service: Make a first attempt at repair no later than 5 calendar days after each leak is detected, and complete repairs no later than 15 calendar days after it each leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Subpart H. [40 CFR 63.174(d)]
- 125 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Demonstrate that the connector is unsafe to monitor because personnel would be exposed to an immediate danger as a result of complying with 40 CFR 63.174(a) through (c). Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(1)]
- 126 Connectors in gas/vapor service or light liquid service (unsafe-to-monitor): Organic HAP monitored by 40 CFR 60, Appendix A, Method 21 at the regulation's specified frequency. Maintain a written plan that requires monitoring of connectors as frequently as practicable during safe to monitor times, but not more frequently than the periodic schedule otherwise applicable. Comply with this requirement instead of the requirements in 40 CFR 63.174(a). Subpart H. [40 CFR 63.174(f)(2)]
Which Months: All Year Statistical Basis: None specified
- 127 Connectors in gas/vapor service or light liquid service (unsafe-to-repair): Demonstrate that repair personnel would be exposed to an immediate danger as a consequence of complying with 40 CFR 63.174(d). Comply with this requirement instead of the requirements in 40 CFR 63.174(a), (d), and (e). Subpart H. [40 CFR 63.174(g)]
- 128 Connectors in gas/vapor service or light liquid service (inaccessible, ceramic, or ceramic-lined): Make a first attempt at repair within 5 days after leak is detected by visual, audible, olfactory or other means, and complete repairs no later than 15 calendar days after leak is detected, except as provided in 40 CFR 63.171 and 63.174(g). Comply with this requirement instead of the monitoring requirements of 40 CFR 63.174(a) and (c) and from the recordkeeping and reporting requirements of 40 CFR 63.181 and 63.182. Subpart H. [40 CFR 63.174(h)(2)]
- 129 Connectors in gas/vapor service or light liquid service: Calculate percent leaking connectors as specified in 40 CFR 63.174(i)(1) and (i)(2). Subpart H. [40 CFR 63.174(i)]
- 130 Comply with the test methods and procedures requirements provided in 40 CFR 63.180. Subpart H. [40 CFR 63.180]
- 131 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain records as specified in 40 CFR 63.181(a) through (k). Subpart H. [40 CFR 63.181]
- 132 Submit Initial Notification: Due within 120 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

FUG010 JS, Fugitive Emissions

- 133 Submit application: Due as soon as practicable before the construction or reconstruction is planned to commence (but it need not be sooner than 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H). Submit application for approval of construction or reconstruction required by 40 CFR 63.5(d) in lieu of the Initial Notification. Subpart H. [40 CFR 63.182(b)]
- 134 Submit Initial Notification: Due within 90 days after the date of promulgation of the subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(b)(1). Subpart H. [40 CFR 63.182(b)]
- 135 Submit Notification of Compliance Status: Due within 90 days of the compliance dates specified in the 40 CFR 63 subpart that references 40 CFR 63 Subpart H. Include the information specified in 40 CFR 63.182(c)(1) through (c)(3). Subpart H. [40 CFR 63.182(c)]
- 136 Submit Periodic Reports: Due semiannually starting 6 months after the Notification of Compliance Status, as required in 40 CFR 63.182(c). Include the information specified in 40 CFR 63.182(d)(2) through (d)(4). Subpart H. [40 CFR 63.182(d)]

GRP137 Vector SBC Plant

- 137 Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1103]
- 138 Outdoor burning of waste material or other combustible material is prohibited. [LAC 33:III.1109.B]
- 139 Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited. [LAC 33:III.1303.B]
- 140 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]
- 141 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Record and keep on site for at least two years the data required to demonstrate exemption from the provisions of LAC 33:III.Chapter 15. Record all emissions data in the units of the standard using the averaging time of the standard. Make records available to a representative of DEQ or the U.S. EPA on request. [LAC 33:III.1513]
- 142 Equip all rotary pumps and compressors handling volatile organic compounds having a true vapor pressure of 1.5 psia or greater at handling conditions with mechanical seals or other equivalent equipment. [LAC 33:III.2111]
- 143 Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33:III.2113.A.1-5. [LAC 33:III.2113.A]
- 144 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.1.1 through 5, as appropriate. [LAC 33:III.2115.J]
- 145 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 146 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 147 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 148 Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 149 Shall comply with all the applicable requirements of LAC 33:III.2153.G.4. [LAC 33:III.2153.G.4]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

GRP137 **Vector SBC Plant**

- 150 Comply as expeditiously as practicable, but in no event later than three years after the process change, if an additional affected VOC wastewater stream is generated as a result of a process change, if demonstration is made to DEQ that achieving compliance will take longer than upon initial startup, and if this demonstration is satisfactory to DEQ. Comply as expeditiously as practicable, but in no event later than three years after the process change for an existing wastewater stream that becomes an affected VOC wastewater stream due to a process change. Comply as soon as practicable, but in no event later than one year from the promulgation of the regulation revision, for a facility that has become subject to this regulation as a result of a revision of the regulation. [LAC 33:III.2153.I]
- 151 Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance. [LAC 33:III.219]
- 152 Maintain best practical housekeeping and maintenance practices at the highest possible standards to control emissions of highly reactive volatile organic compounds (HRVOC), which include 1,3-Butadiene, Butene, cis-2-Butene, trans-2-Butene, Ethylene, Propylene, o-Xylene, m/p-Xylene, Toluene, Xylene. (State Only). [LAC 33:III.501.C.6]
- 153 Maintain, to the extent practicable, a leak-free facility taking such steps as are necessary and reasonable to prevent leaks and to expeditiously repair leaks that occur. Update the written plan presently required by LAC 33:III.2113.A.4 within 30 days of receipt of this permit to incorporate these general duty obligations into the housekeeping procedures. The plan shall then be considered a means of emission control subject to the required use and maintenance provisions of LAC 33:III.905. Failure to develop, use, and diligently maintain the plan shall be a violation of this permit. (State Only). [LAC 33:III.501.C.6]
- 154 Ethyl benzene < 0.01 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 155 Nitrogen oxides <= 13.7 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 156 Particulate matter (10 microns or less) <= 28.18 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 157 Sulfur dioxide <= 1.6 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 158 1,3-Butadiene <= 2.9 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 159 VOC, Total <= 237.45 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 160 Chlorine <= 0.1 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 161 Methanol <= 0.3 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 162 Ozone Depleting Substances <= 0.6 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 163 Styrene <= 2.8 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 164 Toluene < 0.01 lb/hr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 165 Carbon monoxide <= 48.9 tons/yr. [LAC 33:III.501.C.6]
Which Months: All Year Statistical Basis: Annual maximum
- 166 Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III Chapter 51.Subchapter A, after the effective date of the standard. [LAC 33:III.5105.A.1]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

GRP137 **Vector SBC Plant**

- 167 Do not cause a violation of any ambient air standard listed in LAC 33:III.5107.B.1, unless operating in accordance with LAC 33:III.5109. [LAC 33:III.5105.A.2]
- 168 Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard. [LAC 33:III.5105.A.3]
- 169 Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.5109.A. [LAC 33:III.5105.A.4]
- 170 Submit Annual Emissions Report (AER): Due annually, by the 1st of July, to the Office of Environmental Assessment, Air Quality Assessment Division, in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3. [LAC 33:III.5107.A.2]
- 171 Include a certification statement with initial and subsequent annual emission reports and revisions to any emission report to attest that the information contained in the emission report is true, accurate, and complete, and signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official. The certification statement shall read: "I certify, under penalty of perjury, that the emissions data provided is accurate to the best of my knowledge, information, and belief, and I understand that submitting false or misleading information will expose me to prosecution under state regulations" [LAC 33:III.5107.A.3]
- 172 Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but no later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere which results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property). [LAC 33:III.5107.B.1]
- 173 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services Division, Single Point of Contact (SPOC), except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:III.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:III.3923. [LAC 33:III.5107.B.2]
- 174 Submit notification: Due to the Office of Environmental Compliance, Emergency and Radiological Services, SPOC, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:III.3931, except as provided in LAC 33:III.5107.B.6. Submit notification in the manner provided in LAC 33:III.5107.B.3 [LAC 33:III.5107.B.3]
- 175 Submit written report: Due within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through 3. Submit report to the Office of Environmental Compliance by certified mail. Include the information specified in LAC 33:III.5107.B.4.a.i through viii. [LAC 33:III.5107.B.4]
- 176 Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, in the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge. [LAC 33:III.5107.B.5]
- 177 Achieve compliance with ambient air standards unless it can be demonstrated to the satisfaction of DEQ that compliance with an ambient air standard would be economically infeasible; that emissions could not reasonably be expected to pose a threat to public health or the environment; and that emissions would be controlled to a level that is Maximum Achievable Control Technology. [LAC 33:III.5109.B.3]
- 178 Determine the status of compliance, beyond the property line, with applicable ambient air standards listed in LAC 33:III.5112, Table 51.2. [LAC 33:III.5109.B]
- 179 Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.5109.B.1. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by the department. [LAC 33:III.5109.C]
- 180 Do not commence construction or modification of any major source without first obtaining written authorization from DEQ, as specified. [LAC 33:III.5111.A]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

GRP137 **Vector SBC Plant**

- 181 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 1st of July to the Department of Environmental Quality, Office of Environmental Services, Air Permits Division. Include the information in LAC 33:III.5307.A for the preceding calendar year. [LAC 33:III.5307.B]
- 182 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 5 when the administrative authority declares an Air Pollution Alert. [LAC 33:III.5609.A.1.b]
- 183 Activate the preplanned strategy listed in LAC 33:III.5611, Table 6 when the administrative authority declares an Air Pollution Warning. [LAC 33:III.5609.A.2.b]
- 184 Activate the preplanned abatement strategy listed in LAC 33:III.5611, Table 7 when the administrative authority declares an Air Pollution Emergency. [LAC 33:III.5609.A.3.b]
- 185 Prepare standby plans for the reduction of emissions during periods of Air Pollution Alert, Air Pollution Warning and Air Pollution Emergency. Design standby plans to reduce or eliminate emissions in accordance with the objectives as set forth in LAC 33:III.5611, Tables 5, 6, and 7. [LAC 33:III.5609.A]
- 186 Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority. [LAC 33:III.5611.A]
- 187 During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations. [LAC 33:III.5611.B]
- 188 Comply with the provisions in 40 CFR 68, except as specified in LAC 33:III.5901. [LAC 33:III.5901.A]
- 189 Identify hazards that may result from accidental releases of the substances listed in 40 CFR 68.130, Table 59.0 of LAC 33:III.5907, or Table 59.1 of LAC 33:III.5913 using appropriate hazard assessment techniques, design and maintain a safe facility, and minimize the off-site consequences of accidental releases of such substances that do occur. [LAC 33:III.5907]
- 190 Submit amended registration: Due to the Department of Environmental Quality, Office of Environmental Compliance, Emergency and Radiological Services Division, within 60 days after the information in the submitted registration is no longer accurate. [LAC 33:III.5911.C]
- 191 Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment, Air Quality Assessment Division. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D. [LAC 33:III.919.D]
- 192 All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A. [40 CFR 60]
- 193 Shall comply with all the applicable requirements of 40 CFR Subpart FFFF. [40 CFR 63.2430-2550]
- 194 All affected facilities shall comply with all applicable provisions in 40 CFR 63 Subpart A. [40 CFR 63]
- 195 Shall comply with all the applicable requirements of 40 CFR 68. [40 CFR 68]
- 196 Submit Title V permit application for renewal: Due 180 calendar days before permit expiration date. [40 CFR 70.5(a)(1)(iii)]
- 197 Submit Title V monitoring results report: Due semiannually, by March 31st and September 30th for the preceding periods encompassing July through December and January through June, respectively. Submit reports to the Office of Environmental Compliance, Surveillance Division. Certify reports by a responsible company official. Clearly identify all instances of deviations from permitted monitoring requirements. For previously reported deviations, in lieu of attaching the individual deviation reports, clearly reference the communication(s)/correspondence(s) constituting the prior report, including the date the prior report was submitted. [40 CFR 70.6(a)(3)(iii)(A)]
- 198 Submit Title V excess emissions report: Due quarterly, by June 30, September 30, December 31, March 31. Submit reports of all permit deviations to the Office of Environmental Compliance, Surveillance Division. Certify all reports by a responsible official in accordance with 40 CFR 70.5(d). The reports submitted on March 31 and September 30 may be consolidated with the semi-annual reports required by 40 CFR 70.6(a)(3)(iii)(A) as long as the report clearly indicates this and all required information is included and clearly delineated in the consolidated report. [40 CFR 70.6(a)(3)(iii)(B)]
- 199 Submit Title V compliance certification: Due annually, by the 31st of March. Submit to the Office of Environmental Compliance, Surveillance Division. [40 CFR 70.6(c)(5)(iv)]
- 200 Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B. [40 CFR 82.Subpart F]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

GRP138 Distillation Columns

- 201 Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]
Which Months: All Year Statistical Basis: None specified
- 202 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 203 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 204 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 205 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 206 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]

GRP139 Distillation Columns

- 207 Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]
Which Months: All Year Statistical Basis: None specified
- 208 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 209 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]
- 210 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 211 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 212 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]

GRP140 Reactors

- 213 Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]
Which Months: All Year Statistical Basis: None specified
- 214 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 215 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.J.1]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

GRP140 Reactors

- 216 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 217 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 218 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]

GRP141 Distillation Columns

- 219 Nonhalogenated hydrocarbon burning: Temperature \geq 1600 F (870 degrees C) for 0.5 seconds or greater in a direct-flame afterburner or thermal incinerator. Other devices will be accepted provided 98 percent or greater VOC destruction or removal efficiency can be demonstrated, as determined in accordance with LAC 33:III.2115.J.1, or if emissions are reduced to 20 ppm by volume, whichever is less stringent. [LAC 33:III.2115.B]
- Which Months: All Year Statistical Basis: None specified
- 220 Determine compliance with LAC 33:III.2115.A through G by applying the test methods specified in LAC 33:III.2115.I.1 through 5, as appropriate. [LAC 33:III.2115.I]
- 221 Demonstrate compliance with LAC 33:III.2115 as requested by DEQ. [LAC 33:III.2115.I.1]
- 222 Install and maintain monitors to accurately measure and record operational parameters of all required control devices as necessary to ensure the proper functioning of those devices in accordance with design specifications. Monitor and record at a minimum the parameters listed in LAC 33:III.2115.J.2.a through e. [LAC 33:III.2115.J.2]
- 223 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Maintain the records specified in LAC 33:III.2115.K.1 through K.3. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request. [LAC 33:III.2115.K]
- 224 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 225 Shall comply with all applicable requirements for batch process vent under 40 CFR Subpart FFFF. Flare FS-860 (EQT 329) with 98% control efficiency for total organic HAP is used as the control device. [40 CFR 63.2460]

GRP142 Tanks and Drums

- 226 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 227 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
- Which Months: All Year Statistical Basis: None specified
- 228 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3.a-e. [LAC 33:III.2103.H.3]
- 229 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 230 VOC, Total \geq 95 % reduction efficiency using a closed vent system and control device. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]
- Which Months: All Year Statistical Basis: None specified
- 231 Equip with a closed vent system and control device. Design the closed vent system to collect all VOC vapors and gases discharged from the storage vessel and operate with no detectable emissions. Subpart Kb. [40 CFR 60.112b(a)(3)]

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

GRP142 Tanks and Drums

- 232 Equip with a closed vent system and control device as specified in 40 CFR 60.112b(a)(3). Subpart Kb. [40 CFR 60.112b(b)(1)]
- 233 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]

GRP143 Tank and Drum

- 234 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 235 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
Which Months: All Year Statistical Basis: None specified
- 236 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 237 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]
- 238 Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ, FS-860 Flare (EQT 329) with 98% control efficiency is used to control the VOC emissions - Determined to be MACT. [LAC 33:III.5109.A]
- 239 VOC, Total \geq 95 % reduction efficiency using a closed vent system and control device. Subpart Kb. [40 CFR 60.112b(a)(3)(ii)]
Which Months: All Year Statistical Basis: None specified
- 240 Equip with a closed vent system and control device. Design the closed vent system to collect all VOC vapors and gases discharged from the storage vessel and operate with no detectable emissions. Subpart Kb. [40 CFR 60.112b(a)(3)]
- 241 Equip with a closed vent system and control device as specified in 40 CFR 60.112b(a)(3). Subpart Kb. [40 CFR 60.112b(b)(1)]
- 242 Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Keep readily accessible records showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel. Keep copies of all records for the life of the source as specified by 40 CFR 60.116b(a). Subpart Kb. [40 CFR 60.116b(b)]
- 243 Shall comply with all applicable requirements for storage tanks under 40 CFR Subpart FFFF, Flare FS-860 (EQT 329) with 98% control efficiency for total organic HAP is used as the control device. [40 CFR 63.2470]

GRP144 Drums and Tanks

- 244 Equip with a vapor loss control system, consisting of a gathering system capable of collecting volatile organic compound vapors and a vapor disposal system capable of processing such organic vapors. All tank gauging and sampling devices shall be gas-tight except when gauging or sampling is taking place. [LAC 33:III.2103.A]
- 245 VOC, Total \geq 95 % control efficiency using a vapor loss control system. This limitation does not apply during periods of planned routine maintenance which may not exceed 240 hours per year. [LAC 33:III.2103.E.1]
Which Months: All Year Statistical Basis: None specified
- 246 Determine VOC maximum true vapor pressure using the methods in LAC 33:III.2103.H.3 a-e. [LAC 33:III.2103.H.3]
- 247 Equipment/operational data recordkeeping by electronic or hard copy at the regulation's specified frequency. Keep records of the information specified in LAC 33:III.2103.I.1 - 7, as applicable. [LAC 33:III.2103.I]

GRP145 Bag Unloading Purging

SPECIFIC REQUIREMENTS

AI ID: 1409 - Dow Chemical Co - Louisiana Division

Activity Number: PER20040045

Permit Number: 2025-V2

Air - Title V Regular Permit Renewal

GRP145 **Bag Unloading Purging**

248 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]

GRP146 **Wet Additive Makedown Train 1 and 2**

249 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]

GRP147 **Bag Unloading**

250 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]

GRP148 **Blowers and Hoppers**

251 Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7. [LAC 33:III.1305]